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Appendix B.18

LTE Band 42(3450-3550)



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band42	5MHz	QPSK	42115	1RB#0	21.8	24.15	30	PASS
Band42	5MHz	16QAM	42115	1RB#0	20.94	23.29	30	PASS
Band42	5MHz	64QAM	42115	1RB#0	20.15	22.5	30	PASS
Band42	5MHz	256QAM	42115	1RB#0	16.81	19.16	30	PASS
Band42	5MHz	QPSK	42115	1RB#12	21.95	24.3	30	PASS
Band42	5MHz	16QAM	42115	1RB#12	20.84	23.19	30	PASS
Band42	5MHz	64QAM	42115	1RB#12	20.21	22.56	30	PASS
Band42	5MHz	256QAM	42115	1RB#12	16.88	19.23	30	PASS
Band42	5MHz	QPSK	42115	1RB#24	21.76	24.11	30	PASS
Band42	5MHz	16QAM	42115	1RB#24	20.96	23.31	30	PASS
Band42	5MHz	64QAM	42115	1RB#24	20.14	22.49	30	PASS
Band42	5MHz	256QAM	42115	1RB#24	17.1	19.45	30	PASS
Band42	5MHz	QPSK	42115	25RB#0	20.73	23.08	30	PASS
Band42	5MHz	16QAM	42115	25RB#0	19.83	22.18	30	PASS
Band42	5MHz	64QAM	42115	25RB#0	18.84	21.19	30	PASS
Band42	5MHz	256QAM	42115	25RB#0	16.92	19.27	30	PASS
Band42	5MHz	QPSK	42590	1RB#0	21.37	23.72	30	PASS
Band42	5MHz	16QAM	42590	1RB#0	20.48	22.83	30	PASS
Band42	5MHz	64QAM	42590	1RB#0	19.78	22.13	30	PASS
Band42	5MHz	256QAM	42590	1RB#0	16.57	18.92	30	PASS
Band42	5MHz	QPSK	42590	1RB#12	21.41	23.76	30	PASS
Band42	5MHz	16QAM	42590	1RB#12	20.51	22.86	30	PASS
Band42	5MHz	64QAM	42590	1RB#12	19.82	22.17	30	PASS
Band42	5MHz	256QAM	42590	1RB#12	16.66	19.01	30	PASS
Band42	5MHz	QPSK	42590	1RB#24	21.31	23.66	30	PASS
Band42	5MHz	16QAM	42590	1RB#24	20.54	22.89	30	PASS
Band42	5MHz	64QAM	42590	1RB#24	19.88	22.23	30	PASS
Band42	5MHz	256QAM	42590	1RB#24	16.67	19.02	30	PASS
Band42	5MHz	QPSK	42590	25RB#0	20.48	22.83	30	PASS



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Band42	5MHz	16QAM	42590	25RB#0	19.61	21.96	30	PASS
Band42	5MHz	64QAM	42590	25RB#0	18.44	20.79	30	PASS
Band42	5MHz	256QAM	42590	25RB#0	16.55	18.9	30	PASS
Band42	5MHz	QPSK	43065	1RB#0	21.64	23.99	30	PASS
Band42	5MHz	16QAM	43065	1RB#0	20.74	23.09	30	PASS
Band42	5MHz	64QAM	43065	1RB#0	20.07	22.42	30	PASS
Band42	5MHz	256QAM	43065	1RB#0	16.73	19.08	30	PASS
Band42	5MHz	QPSK	43065	1RB#12	21.61	23.96	30	PASS
Band42	5MHz	16QAM	43065	1RB#12	20.77	23.12	30	PASS
Band42	5MHz	64QAM	43065	1RB#12	20.12	22.47	30	PASS
Band42	5MHz	256QAM	43065	1RB#12	16.81	19.16	30	PASS
Band42	5MHz	QPSK	43065	1RB#24	21.63	23.98	30	PASS
Band42	5MHz	16QAM	43065	1RB#24	20.62	22.97	30	PASS
Band42	5MHz	64QAM	43065	1RB#24	19.98	22.33	30	PASS
Band42	5MHz	256QAM	43065	1RB#24	16.82	19.17	30	PASS
Band42	5MHz	QPSK	43065	25RB#0	20.65	23	30	PASS
Band42	5MHz	16QAM	43065	25RB#0	19.8	22.15	30	PASS
Band42	5MHz	64QAM	43065	25RB#0	18.6	20.95	30	PASS
Band42	5MHz	256QAM	43065	25RB#0	16.78	19.13	30	PASS
Band42	10MHz	QPSK	42140	1RB#0	21.7	24.05	30	PASS
Band42	10MHz	16QAM	42140	1RB#0	20.78	23.13	30	PASS
Band42	10MHz	64QAM	42140	1RB#0	20.17	22.52	30	PASS
Band42	10MHz	256QAM	42140	1RB#0	16.91	19.26	30	PASS
Band42	10MHz	QPSK	42140	1RB#24	21.7	24.05	30	PASS
Band42	10MHz	16QAM	42140	1RB#24	21.02	23.37	30	PASS
Band42	10MHz	64QAM	42140	1RB#24	20.2	22.55	30	PASS
Band42	10MHz	256QAM	42140	1RB#24	16.98	19.33	30	PASS
Band42	10MHz	QPSK	42140	1RB#49	21.82	24.17	30	PASS
Band42	10MHz	16QAM	42140	1RB#49	20.78	23.13	30	PASS
Band42	10MHz	64QAM	42140	1RB#49	20.13	22.48	30	PASS
Band42	10MHz	256QAM	42140	1RB#49	16.95	19.3	30	PASS
Band42	10MHz	QPSK	42140	50RB#0	20.84	23.19	30	PASS
Band42	10MHz	16QAM	42140	50RB#0	19.91	22.26	30	PASS
Band42	10MHz	64QAM	42140	50RB#0	18.93	21.28	30	PASS



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Band42	10MHz	256QAM	42140	50RB#0	16.89	19.24	30	PASS
Band42	10MHz	QPSK	42590	1RB#0	21.47	23.82	30	PASS
Band42	10MHz	16QAM	42590	1RB#0	20.62	22.97	30	PASS
Band42	10MHz	64QAM	42590	1RB#0	19.9	22.25	30	PASS
Band42	10MHz	256QAM	42590	1RB#0	16.56	18.91	30	PASS
Band42	10MHz	QPSK	42590	1RB#24	21.34	23.69	30	PASS
Band42	10MHz	16QAM	42590	1RB#24	20.56	22.91	30	PASS
Band42	10MHz	64QAM	42590	1RB#24	19.96	22.31	30	PASS
Band42	10MHz	256QAM	42590	1RB#24	16.83	19.18	30	PASS
Band42	10MHz	QPSK	42590	1RB#49	21.16	23.51	30	PASS
Band42	10MHz	16QAM	42590	1RB#49	20.39	22.74	30	PASS
Band42	10MHz	64QAM	42590	1RB#49	19.59	21.94	30	PASS
Band42	10MHz	256QAM	42590	1RB#49	16.79	19.14	30	PASS
Band42	10MHz	QPSK	42590	50RB#0	20.41	22.76	30	PASS
Band42	10MHz	16QAM	42590	50RB#0	19.55	21.9	30	PASS
Band42	10MHz	64QAM	42590	50RB#0	18.56	20.91	30	PASS
Band42	10MHz	256QAM	42590	50RB#0	16.63	18.98	30	PASS
Band42	10MHz	QPSK	43040	1RB#0	21.5	23.85	30	PASS
Band42	10MHz	16QAM	43040	1RB#0	20.5	22.85	30	PASS
Band42	10MHz	64QAM	43040	1RB#0	19.83	22.18	30	PASS
Band42	10MHz	256QAM	43040	1RB#0	16.64	18.99	30	PASS
Band42	10MHz	QPSK	43040	1RB#24	21.55	23.9	30	PASS
Band42	10MHz	16QAM	43040	1RB#24	20.73	23.08	30	PASS
Band42	10MHz	64QAM	43040	1RB#24	20.11	22.46	30	PASS
Band42	10MHz	256QAM	43040	1RB#24	16.84	19.19	30	PASS
Band42	10MHz	QPSK	43040	1RB#49	21.56	23.91	30	PASS
Band42	10MHz	16QAM	43040	1RB#49	20.81	23.16	30	PASS
Band42	10MHz	64QAM	43040	1RB#49	20.06	22.41	30	PASS
Band42	10MHz	256QAM	43040	1RB#49	16.75	19.1	30	PASS
Band42	10MHz	QPSK	43040	50RB#0	20.54	22.89	30	PASS
Band42	10MHz	16QAM	43040	50RB#0	19.59	21.94	30	PASS
Band42	10MHz	64QAM	43040	50RB#0	18.72	21.07	30	PASS
Band42	10MHz	256QAM	43040	50RB#0	16.67	19.02	30	PASS
Band42	15MHz	QPSK	42165	1RB#0	21.43	23.78	30	PASS



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Band42	15MHz	16QAM	42165	1RB#0	20.62	22.97	30	PASS
Band42	15MHz	64QAM	42165	1RB#0	19.83	22.18	30	PASS
Band42	15MHz	256QAM	42165	1RB#0	16.69	19.04	30	PASS
Band42	15MHz	QPSK	42165	1RB#38	21.54	23.89	30	PASS
Band42	15MHz	16QAM	42165	1RB#38	20.72	23.07	30	PASS
Band42	15MHz	64QAM	42165	1RB#38	20.11	22.46	30	PASS
Band42	15MHz	256QAM	42165	1RB#38	16.87	19.22	30	PASS
Band42	15MHz	QPSK	42165	1RB#74	21.58	23.93	30	PASS
Band42	15MHz	16QAM	42165	1RB#74	20.59	22.94	30	PASS
Band42	15MHz	64QAM	42165	1RB#74	20	22.35	30	PASS
Band42	15MHz	256QAM	42165	1RB#74	17.09	19.44	30	PASS
Band42	15MHz	QPSK	42165	75RB#0	20.8	23.15	30	PASS
Band42	15MHz	16QAM	42165	75RB#0	19.66	22.01	30	PASS
Band42	15MHz	64QAM	42165	75RB#0	18.67	21.02	30	PASS
Band42	15MHz	256QAM	42165	75RB#0	16.84	19.19	30	PASS
Band42	15MHz	QPSK	42590	1RB#0	21.36	23.71	30	PASS
Band42	15MHz	16QAM	42590	1RB#0	20.38	22.73	30	PASS
Band42	15MHz	64QAM	42590	1RB#0	19.82	22.17	30	PASS
Band42	15MHz	256QAM	42590	1RB#0	16.48	18.83	30	PASS
Band42	15MHz	QPSK	42590	1RB#38	21.32	23.67	30	PASS
Band42	15MHz	16QAM	42590	1RB#38	20.49	22.84	30	PASS
Band42	15MHz	64QAM	42590	1RB#38	19.75	22.1	30	PASS
Band42	15MHz	256QAM	42590	1RB#38	16.57	18.92	30	PASS
Band42	15MHz	QPSK	42590	1RB#74	21.39	23.74	30	PASS
Band42	15MHz	16QAM	42590	1RB#74	20.51	22.86	30	PASS
Band42	15MHz	64QAM	42590	1RB#74	19.72	22.07	30	PASS
Band42	15MHz	256QAM	42590	1RB#74	16.8	19.15	30	PASS
Band42	15MHz	QPSK	42590	75RB#0	20.44	22.79	30	PASS
Band42	15MHz	16QAM	42590	75RB#0	19.43	21.78	30	PASS
Band42	15MHz	64QAM	42590	75RB#0	18.28	20.63	30	PASS
Band42	15MHz	256QAM	42590	75RB#0	16.22	18.57	30	PASS
Band42	15MHz	QPSK	43015	1RB#0	21.31	23.66	30	PASS
Band42	15MHz	16QAM	43015	1RB#0	20.41	22.76	30	PASS
Band42	15MHz	64QAM	43015	1RB#0	19.69	22.04	30	PASS



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Band42	15MHz	QPSK	43015	1RB#38	21.37	23.72	30	PASS
Band42	15MHz	16QAM	43015	1RB#38	20.61	22.96	30	PASS
Band42	15MHz	64QAM	43015	1RB#38	19.87	22.22	30	PASS
Band42	15MHz	256QAM	43015	1RB#38	16.63	18.98	30	PASS
Band42	15MHz	QPSK	43015	1RB#74	21.47	23.82	30	PASS
Band42	15MHz	16QAM	43015	1RB#74	20.63	22.98	30	PASS
Band42	15MHz	64QAM	43015	1RB#74	19.94	22.29	30	PASS
Band42	15MHz	256QAM	43015	1RB#74	16.55	18.9	30	PASS
Band42	15MHz	QPSK	43015	75RB#0	20.6	22.95	30	PASS
Band42	15MHz	16QAM	43015	75RB#0	19.52	21.87	30	PASS
Band42	15MHz	64QAM	43015	75RB#0	18.46	20.81	30	PASS
Band42	15MHz	256QAM	43015	75RB#0	16.75	19.1	30	PASS
Band42	20MHz	QPSK	42190	1RB#0	21.44	23.79	30	PASS
Band42	20MHz	16QAM	42190	1RB#0	20.65	23	30	PASS
Band42	20MHz	64QAM	42190	1RB#0	19.81	22.16	30	PASS
Band42	20MHz	256QAM	42190	1RB#0	16.9	19.25	30	PASS
Band42	20MHz	QPSK	42190	1RB#49	21.75	24.1	30	PASS
Band42	20MHz	16QAM	42190	1RB#49	20.87	23.22	30	PASS
Band42	20MHz	64QAM	42190	1RB#49	19.91	22.26	30	PASS
Band42	20MHz	256QAM	42190	1RB#49	16.93	19.28	30	PASS
Band42	20MHz	QPSK	42190	1RB#99	21.57	23.92	30	PASS
Band42	20MHz	16QAM	42190	1RB#99	20.84	23.19	30	PASS
Band42	20MHz	64QAM	42190	1RB#99	19.89	22.24	30	PASS
Band42	20MHz	256QAM	42190	1RB#99	16.88	19.23	30	PASS
Band42	20MHz	QPSK	42190	100RB#0	20.61	22.96	30	PASS
Band42	20MHz	16QAM	42190	100RB#0	19.68	22.03	30	PASS
Band42	20MHz	64QAM	42190	100RB#0	18.76	21.11	30	PASS
Band42	20MHz	256QAM	42190	100RB#0	16.82	19.17	30	PASS
Band42	20MHz	QPSK	42590	1RB#0	21.29	23.64	30	PASS
Band42	20MHz	16QAM	42590	1RB#0	20.28	22.63	30	PASS
Band42	20MHz	64QAM	42590	1RB#0	19.58	21.93	30	PASS
Band42	20MHz	256QAM	42590	1RB#0	16.53	18.88	30	PASS
Band42	20MHz	QPSK	42590	1RB#49	21.27	23.62	30	PASS



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Band42	20MHz	16QAM	42590	1RB#49	20.47	22.82	30	PASS
Band42	20MHz	64QAM	42590	1RB#49	19.72	22.07	30	PASS
Band42	20MHz	256QAM	42590	1RB#49	16.71	19.06	30	PASS
Band42	20MHz	QPSK	42590	1RB#99	21.18	23.53	30	PASS
Band42	20MHz	16QAM	42590	1RB#99	20.43	22.78	30	PASS
Band42	20MHz	64QAM	42590	1RB#99	19.66	22.01	30	PASS
Band42	20MHz	256QAM	42590	1RB#99	16.57	18.92	30	PASS
Band42	20MHz	QPSK	42590	100RB#0	20.45	22.8	30	PASS
Band42	20MHz	16QAM	42590	100RB#0	19.36	21.71	30	PASS
Band42	20MHz	64QAM	42590	100RB#0	18.43	20.78	30	PASS
Band42	20MHz	256QAM	42590	100RB#0	16.31	18.66	30	PASS
Band42	20MHz	QPSK	42990	1RB#0	21.48	23.83	30	PASS
Band42	20MHz	16QAM	42990	1RB#0	20.54	22.89	30	PASS
Band42	20MHz	64QAM	42990	1RB#0	19.64	21.99	30	PASS
Band42	20MHz	256QAM	42990	1RB#0	16.67	19.02	30	PASS
Band42	20MHz	QPSK	42990	1RB#49	21.6	23.95	30	PASS
Band42	20MHz	16QAM	42990	1RB#49	20.57	22.92	30	PASS
Band42	20MHz	64QAM	42990	1RB#49	20.12	22.47	30	PASS
Band42	20MHz	256QAM	42990	1RB#49	16.73	19.08	30	PASS
Band42	20MHz	QPSK	42990	1RB#99	21.48	23.83	30	PASS
Band42	20MHz	16QAM	42990	1RB#99	20.49	22.84	30	PASS
Band42	20MHz	64QAM	42990	1RB#99	19.73	22.08	30	PASS
Band42	20MHz	256QAM	42990	1RB#99	16.76	19.11	30	PASS
Band42	20MHz	QPSK	42990	100RB#0	20.45	22.8	30	PASS
Band42	20MHz	16QAM	42990	100RB#0	19.59	21.94	30	PASS
Band42	20MHz	64QAM	42990	100RB#0	18.46	20.81	30	PASS
Band42	20MHz	256QAM	42990	100RB#0	16.57	18.92	30	PASS



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2. Frequency Stability

2.4 B42a_20MHz

2.4.1 Test Result

Band: 42a / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3500	100	0	20	3.135	-1.425	-0.0004	/	Pass
					3.7	-4.214	-0.0012	/	Pass
					4.4	-1.993	-0.0006	/	Pass
				-30	3.7	-0.284	-0.0001	/	Pass
				-20	3.7	-0.730	-0.0002	/	Pass
				-10	3.7	-1.340	-0.0004	/	Pass
				0	3.7	-1.107	-0.0003	/	Pass
				10	3.7	0.502	0.0001	/	Pass
				30	3.7	-2.698	-0.0008	/	Pass
				40	3.7	0.829	0.0002	/	Pass
				50	3.7	-0.620	-0.0002	/	Pass



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3. Field Strength of Spurious Radiation

For report SUCR240400009001:

Test Band = LTE_B42(3450-3550)
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5076.5538	27.24	-15.20	33.45	-49.77	-13.00	36.77	Horizontal
2	6902.4451	51.62	-43.34	36.21	-50.77	-13.00	37.77	Horizontal
3	7833.6917	49.21	-42.11	37.10	-51.06	-13.00	38.06	Horizontal
4	11347.4674	47.86	-37.62	39.65	-45.37	-13.00	32.37	Horizontal
5	14368.0184	47.27	-35.25	40.56	-42.68	-13.00	29.68	Horizontal
6	16939.147	48.22	-34.65	38.68	-43.01	-13.00	30.01	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4792.8896	26.85	-15.89	32.37	-51.93	-13.00	38.93	Vertical
2	7383.6692	50.00	-42.60	36.83	-51.03	-13.00	38.03	Vertical
3	9477.7739	49.23	-39.52	39.11	-46.44	-13.00	33.44	Vertical
4	12924.3462	46.86	-35.79	39.65	-44.54	-13.00	31.54	Vertical
5	15049.6525	47.00	-34.14	39.85	-42.55	-13.00	29.55	Vertical
6	17979.599	48.43	-37.97	42.68	-42.12	-13.00	29.12	Vertical



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Test Band = LTE_B42(3450-3550)
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4960.598	27.66	-15.27	33.18	-49.69	-13.00	36.69	Horizontal
2	6982.2491	52.13	-43.59	36.46	-50.26	-13.00	37.26	Horizontal
3	9511.9756	49.01	-39.31	39.18	-46.38	-13.00	33.38	Horizontal
4	12840.342	46.92	-35.69	39.38	-44.65	-13.00	31.65	Horizontal
5	14487.4244	47.22	-35.12	40.59	-42.57	-13.00	29.57	Horizontal
6	16762.1381	48.68	-34.67	38.62	-42.63	-13.00	29.63	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5135.6568	27.71	-15.57	33.57	-49.55	-13.00	36.55	Vertical
2	6982.2491	53.03	-43.59	36.46	-49.36	-13.00	36.36	Vertical
3	9481.9741	48.64	-39.46	39.13	-46.95	-13.00	33.95	Vertical
4	12571.5286	46.59	-36.06	39.43	-45.30	-13.00	32.30	Vertical
5	16821.5411	48.53	-34.73	38.72	-42.74	-13.00	29.74	Vertical
6	17983.1992	48.01	-38.01	42.70	-42.56	-13.00	29.56	Vertical



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Test Band = LTE_B42(3450-3550)
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5075.9538	27.51	-15.20	33.45	-49.50	-13.00	36.50	Horizontal
2	6866.4433	50.60	-43.49	36.13	-52.02	-13.00	39.02	Horizontal
3	7992.6996	50.48	-42.13	37.41	-49.50	-13.00	36.50	Horizontal
4	9522.1761	49.89	-39.42	39.16	-45.63	-13.00	32.63	Horizontal
5	13433.1717	46.77	-35.24	40.23	-43.50	-13.00	30.50	Horizontal
6	17977.1989	48.31	-37.95	42.66	-42.24	-13.00	29.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5051.2026	27.20	-15.08	33.40	-49.74	-13.00	36.74	Vertical
2	7062.6531	52.43	-43.49	36.45	-49.87	-13.00	36.87	Vertical
3	9466.9733	49.85	-39.69	39.07	-46.03	-13.00	33.03	Vertical
4	11404.4702	47.66	-37.04	39.69	-44.95	-13.00	31.95	Vertical
5	14197.6099	46.63	-34.55	40.80	-42.38	-13.00	29.38	Vertical
6	17984.3992	48.62	-38.02	42.71	-41.95	-13.00	28.95	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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For report SUCR240400008901:

Test Band = LTE_42(3450-3550) _TM1
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6901.9451	47.31	-39.75	35.40	-52.30	-13.00	39.30	Horizontal
2	9112.3556	41.47	-35.54	37.02	-52.31	-13.00	39.31	Horizontal
3	10974.8737	42.80	-35.29	40.13	-47.62	-13.00	34.62	Horizontal
4	14749.3625	40.18	-30.14	41.75	-43.47	-13.00	30.47	Horizontal
5	16447.4224	39.48	-28.24	39.04	-44.98	-13.00	31.98	Horizontal
6	17965.4983	40.06	-39.74	47.58	-47.36	-13.00	34.36	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6901.9451	50.62	-39.75	35.40	-48.99	-13.00	35.99	Vertical
2	8719.611	41.79	-36.60	36.68	-53.39	-13.00	40.39	Vertical
3	10353.2677	45.55	-35.56	39.15	-46.12	-13.00	33.12	Vertical
4	14228.9614	41.38	-32.21	41.81	-44.28	-13.00	31.28	Vertical
5	16437.6469	39.87	-28.36	38.99	-44.76	-13.00	31.76	Vertical
6	17970.0985	40.20	-39.75	47.66	-47.15	-13.00	34.15	Vertical



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Test Band = LTE_42(3450-3550) _TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6981.8741	45.53	-39.25	35.49	-53.49	-13.00	40.49	Horizontal
2	8534.4517	41.90	-36.82	36.57	-53.61	-13.00	40.61	Horizontal
3	10559.703	42.50	-35.49	39.14	-49.11	-13.00	36.11	Horizontal
4	14775.2388	40.57	-30.67	41.67	-43.69	-13.00	30.69	Horizontal
5	16514.1257	40.56	-29.55	39.33	-44.92	-13.00	31.92	Horizontal
6	17969.5235	40.15	-39.75	47.65	-47.21	-13.00	34.21	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6982.4491	49.93	-39.25	35.49	-49.09	-13.00	36.09	Vertical
2	8518.3509	42.10	-36.74	36.54	-53.36	-13.00	40.36	Vertical
3	10388.3444	41.89	-35.41	39.19	-49.59	-13.00	36.59	Vertical
4	12726.4113	42.64	-34.32	38.93	-48.01	-13.00	35.01	Vertical
5	14716.5858	41.46	-31.37	41.85	-43.32	-13.00	30.32	Vertical
6	17967.7984	39.96	-39.74	47.62	-47.42	-13.00	34.42	Vertical



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Test Band = LTE_42(3450-3550) _TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7062.3781	46.81	-39.24	36.13	-51.56	-13.00	38.56	Horizontal
2	9290.0395	41.83	-35.91	37.18	-52.16	-13.00	39.16	Horizontal
3	11590.7295	42.52	-35.03	40.29	-47.48	-13.00	34.48	Horizontal
4	14770.6385	40.89	-30.57	41.69	-43.25	-13.00	30.25	Horizontal
5	16514.7007	40.56	-29.56	39.33	-44.93	-13.00	31.93	Horizontal
6	17967.7984	40.11	-39.74	47.62	-47.27	-13.00	34.27	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7062.3781	52.19	-39.24	36.13	-46.18	-13.00	33.18	Vertical
2	8904.7702	41.61	-36.09	36.72	-53.02	-13.00	40.02	Vertical
3	10593.0547	44.05	-35.42	39.27	-47.36	-13.00	34.36	Vertical
4	14776.3888	41.08	-30.70	41.67	-43.21	-13.00	30.21	Vertical
5	16443.3972	39.50	-28.29	39.02	-45.03	-13.00	32.03	Vertical
6	17958.5979	40.32	-39.74	47.45	-47.23	-13.00	34.23	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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4. 99% & 26dB Bandwidth

4.1 Band42a_OBW

4.1.1 Test Result

Band: 42a / NTNv							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3452.5	25	0	4.580	/	Pass
		3500	25	0	4.564	/	Pass
		3547.5	25	0	4.580	/	Pass
	16QAM	3452.5	25	0	4.547	/	Pass
		3500	25	0	4.565	/	Pass
		3547.5	25	0	4.567	/	Pass
	64QAM	3452.5	25	0	4.576	/	Pass
		3500	25	0	4.559	/	Pass
		3547.5	25	0	4.595	/	Pass
	256QAM	3452.5	25	0	4.573	/	Pass
		3500	25	0	4.556	/	Pass
		3547.5	25	0	4.576	/	Pass
10	QPSK	3455	50	0	9.081	/	Pass
		3500	50	0	9.101	/	Pass
		3545	50	0	9.072	/	Pass
	16QAM	3455	50	0	9.084	/	Pass
		3500	50	0	9.070	/	Pass
		3545	50	0	9.062	/	Pass
	64QAM	3455	50	0	9.089	/	Pass
		3500	50	0	9.072	/	Pass
		3545	50	0	9.036	/	Pass
	256QAM	3455	50	0	9.046	/	Pass
		3500	50	0	9.057	/	Pass
		3545	50	0	9.092	/	Pass
15	QPSK	3457.5	75	0	13.590	/	Pass
		3500	75	0	13.618	/	Pass
		3542.5	75	0	13.605	/	Pass
	16QAM	3457.5	75	0	13.594	/	Pass
		3500	75	0	13.607	/	Pass
		3542.5	75	0	13.584	/	Pass
	64QAM	3457.5	75	0	13.618	/	Pass
		3500	75	0	13.596	/	Pass
		3542.5	75	0	13.579	/	Pass
	256QAM	3457.5	75	0	13.626	/	Pass
		3500	75	0	13.578	/	Pass
		3542.5	75	0	13.621	/	Pass
20	QPSK	3460	100	0	18.120	/	Pass
		3500	100	0	18.126	/	Pass
		3540	100	0	18.154	/	Pass



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	16QAM	3460	100	0	18.142	/	Pass
		3500	100	0	18.057	/	Pass
		3540	100	0	18.129	/	Pass
	64QAM	3460	100	0	18.098	/	Pass
		3500	100	0	18.091	/	Pass
		3540	100	0	18.123	/	Pass
	256QAM	3460	100	0	18.147	/	Pass
		3500	100	0	18.134	/	Pass
		3540	100	0	18.086	/	Pass
		3460	100	0	18.142	/	Pass
		3500	100	0	18.057	/	Pass
		3540	100	0	18.129	/	Pass



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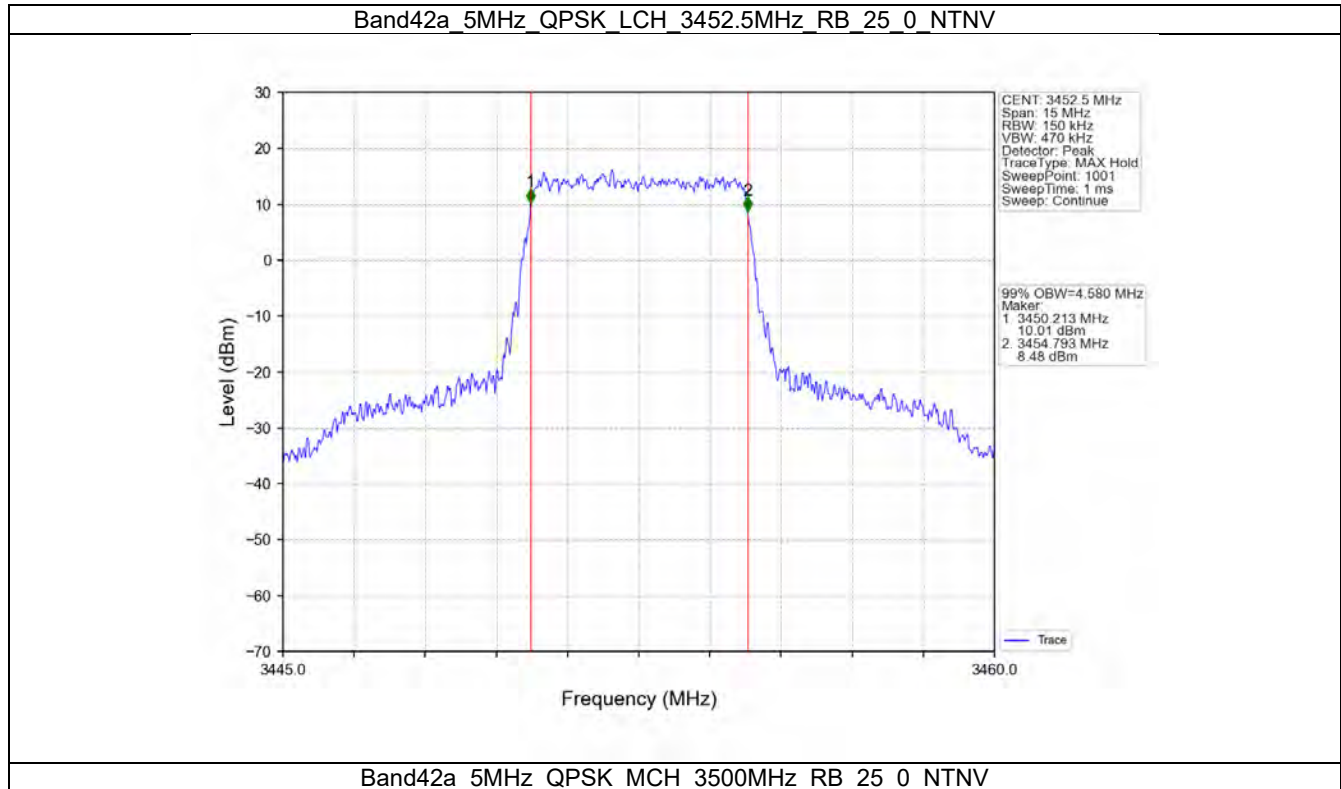
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4.1.2 Test Graph



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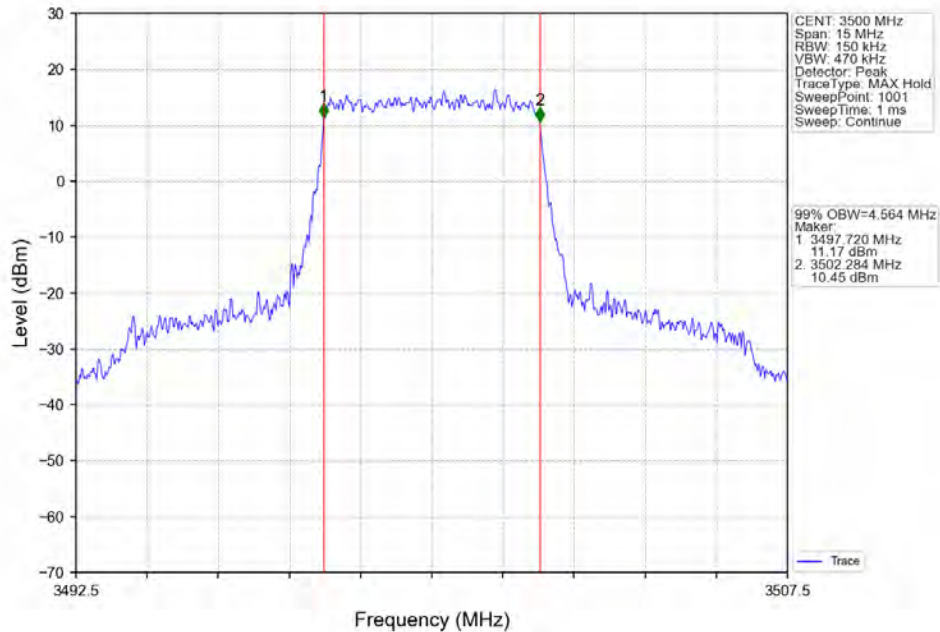
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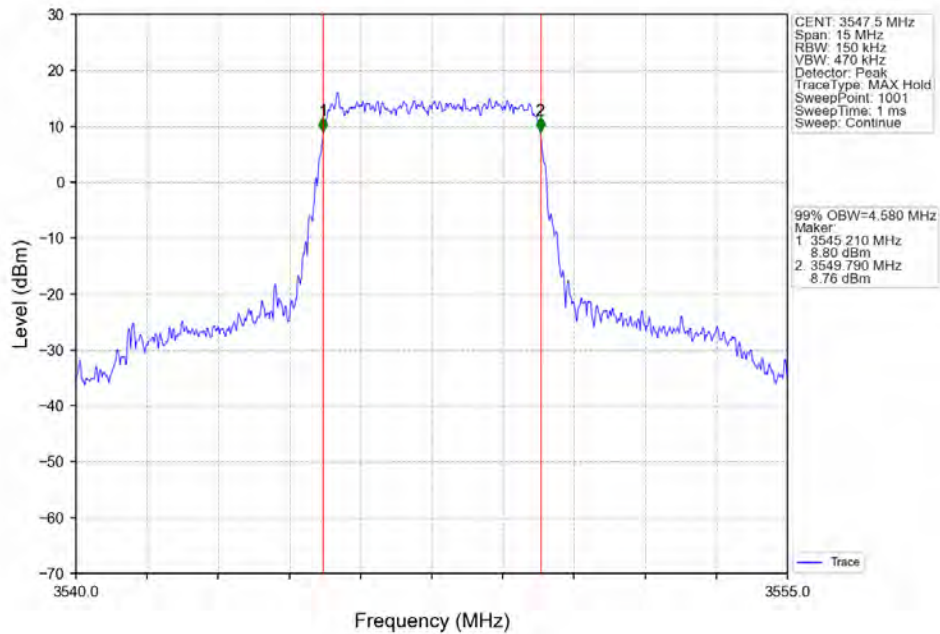
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Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_LCH_3452.5MHz_RB_25_0_NTNV



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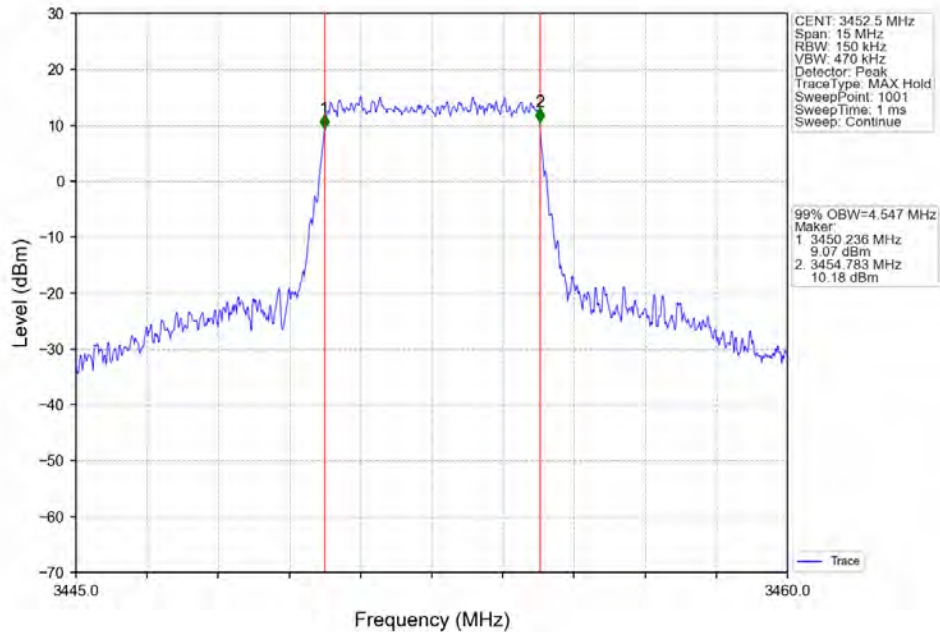
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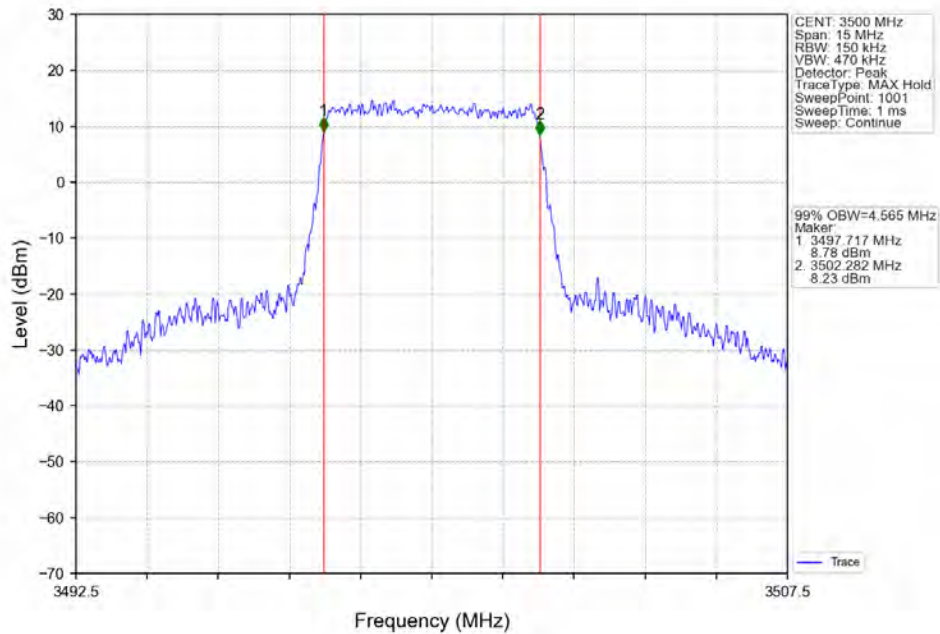
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Band42a_5MHz_16QAM_HCH_3547.5MHz_RB_25_0_NTNV



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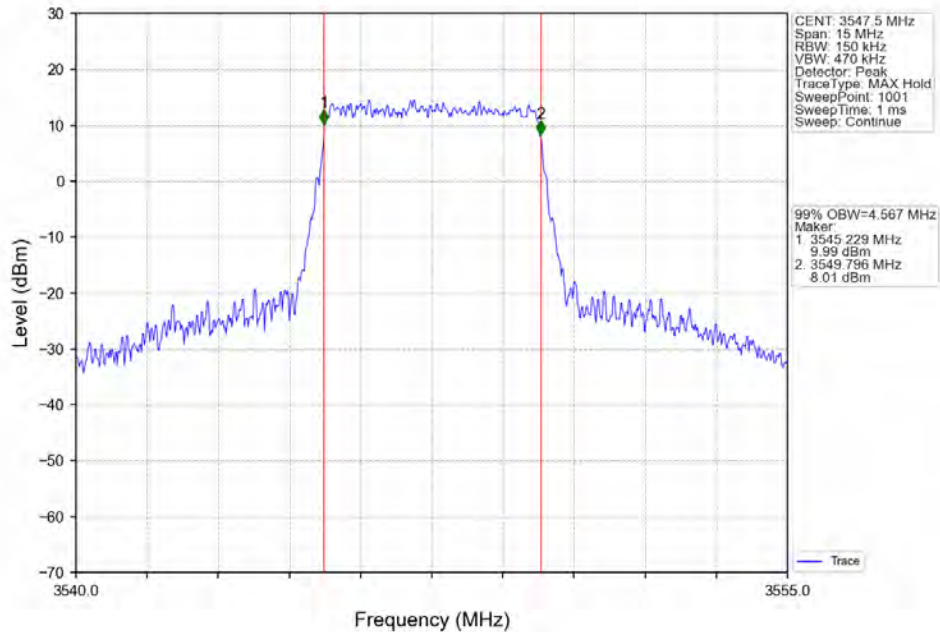
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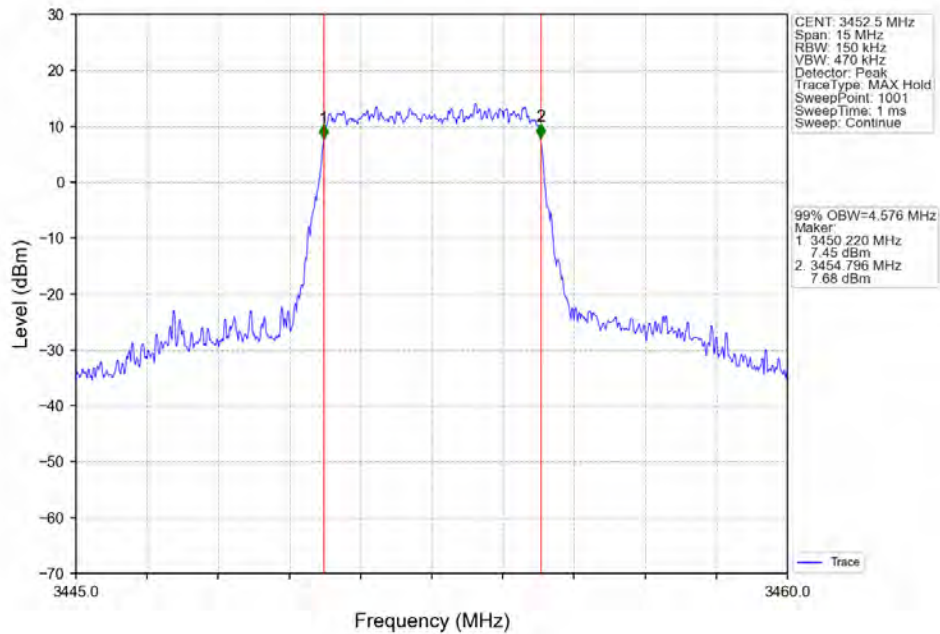
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Band42a_5MHz_64QAM_MCH_3500MHz_RB_25_0_NTNV



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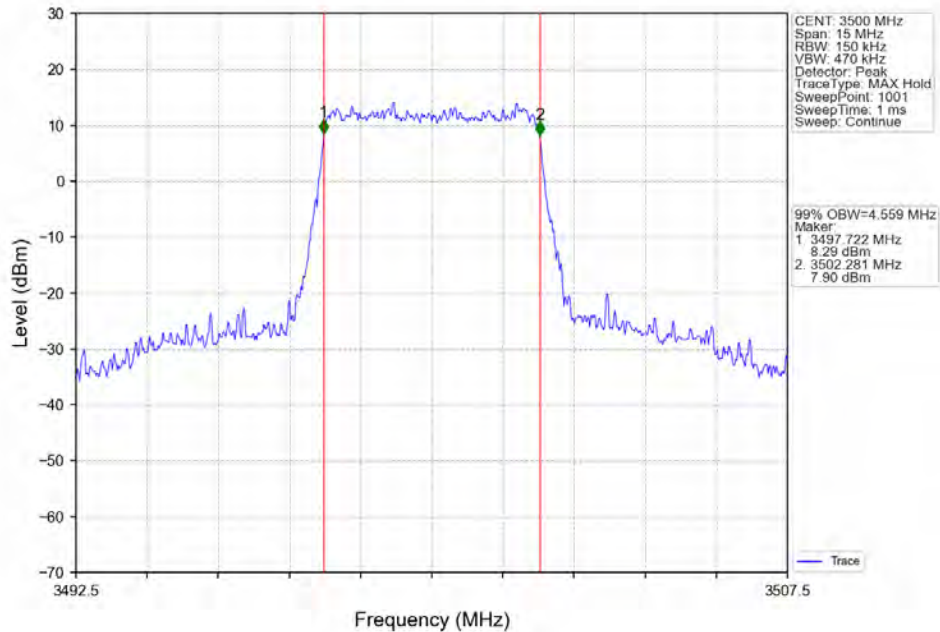
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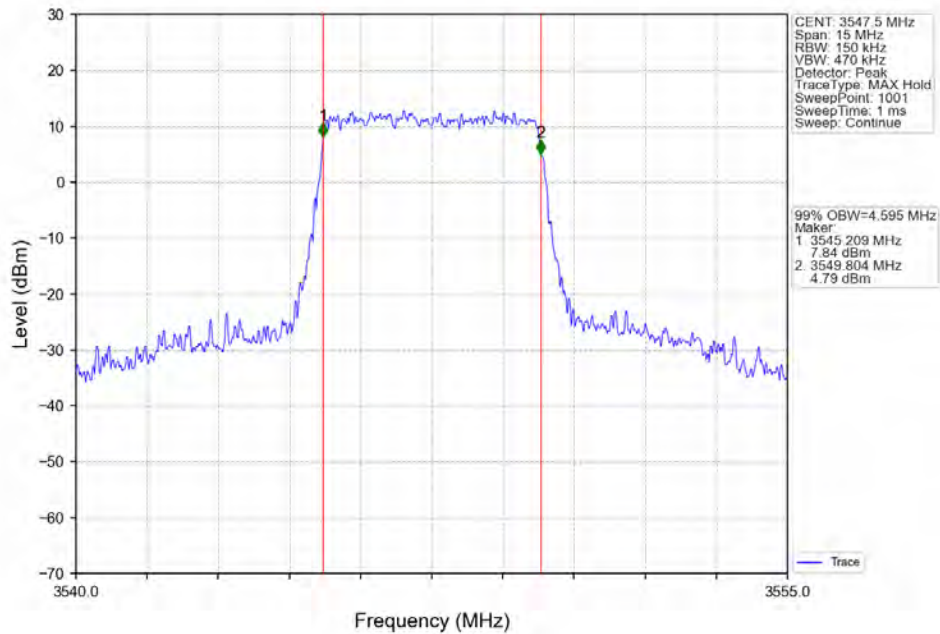
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Band42a_5MHz_64QAM_HCH_3547.5MHz_RB_25_0_NTNV



Band42a_5MHz_256QAM_LCH_3452.5MHz_RB_25_0_NTNV



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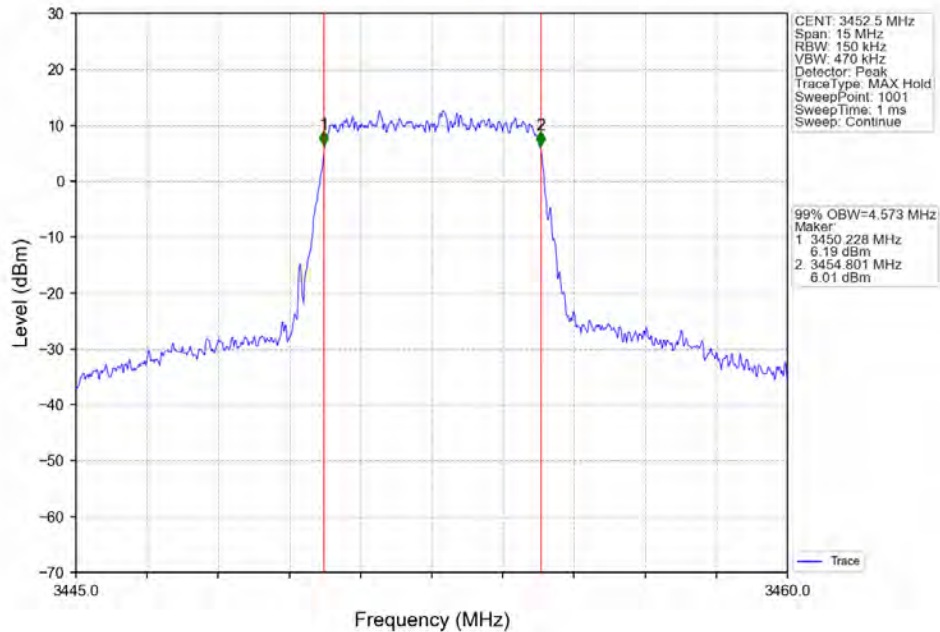
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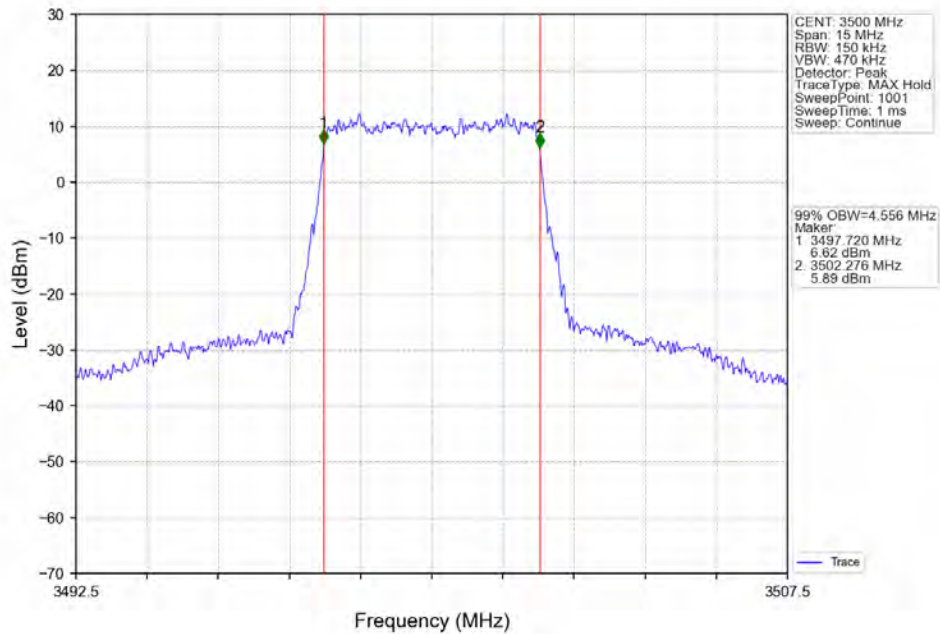
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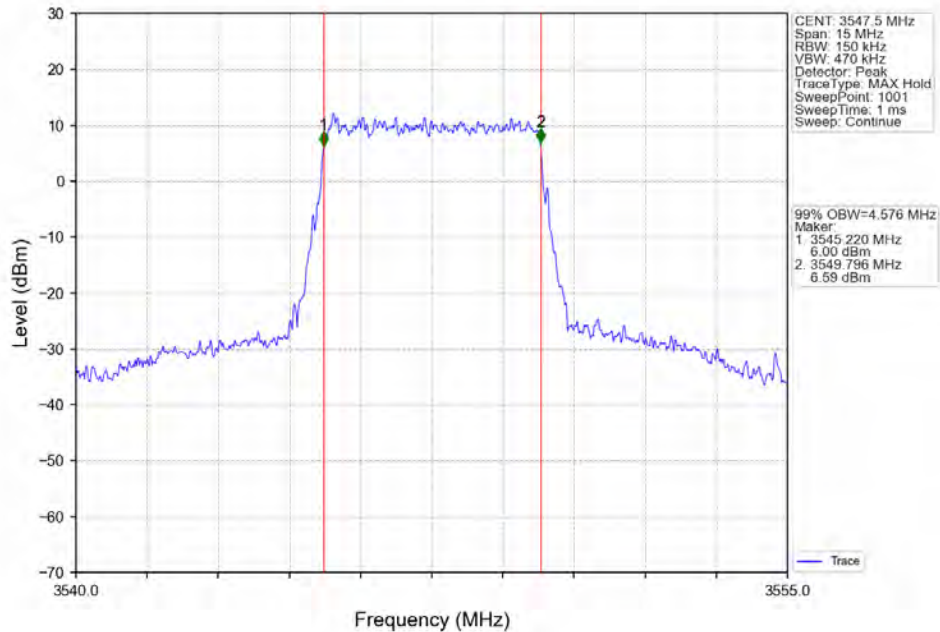
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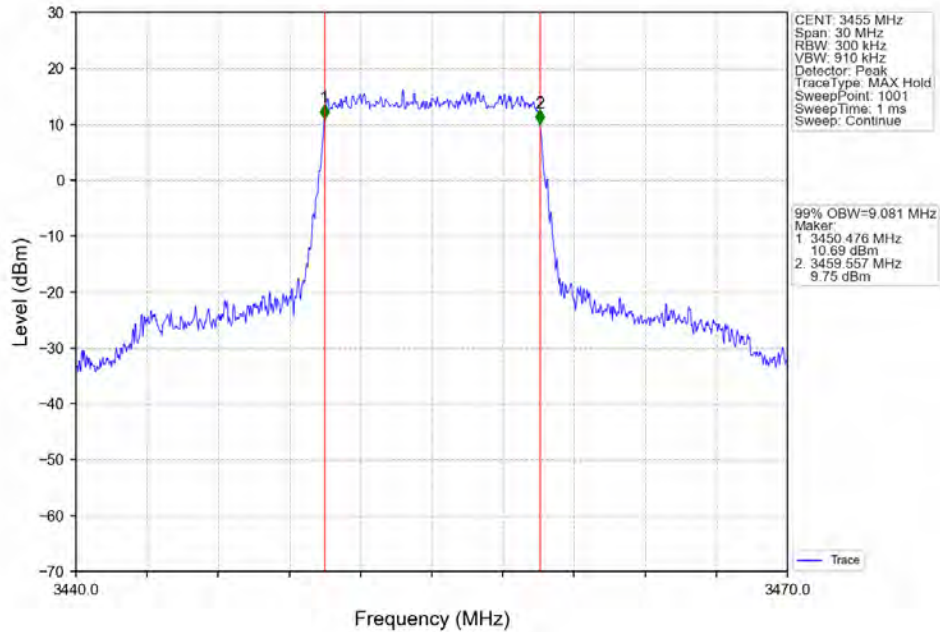
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Band42a 10MHz QPSK LCH 3455MHz RB 50 0 NTN



Band42a 10MHz QPSK MCH 3500MHz RB 50 0 NTN



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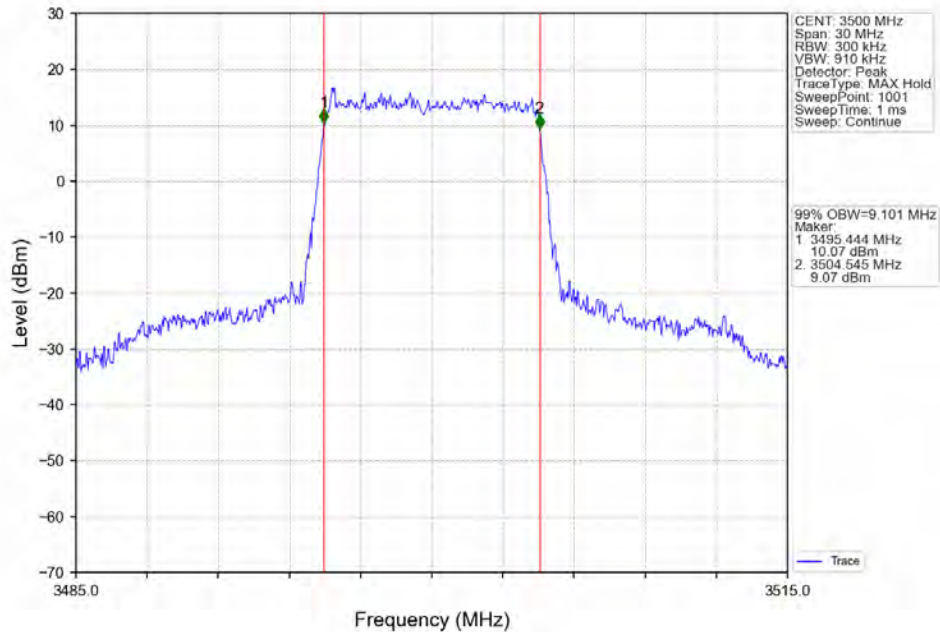
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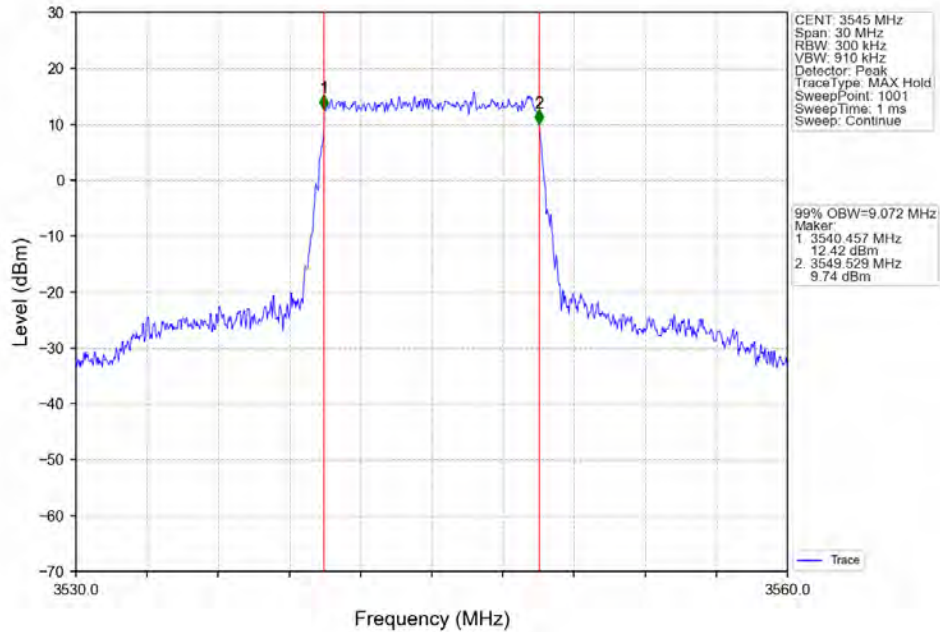
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Band42a_10MHz_16QAM_LCH_3455MHz_RB_50_0_NTNV



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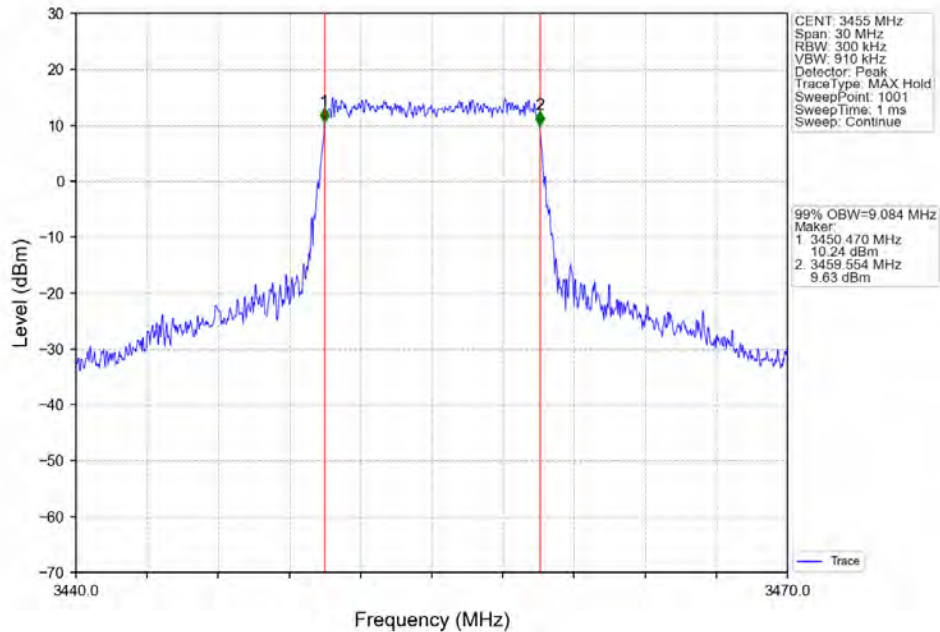
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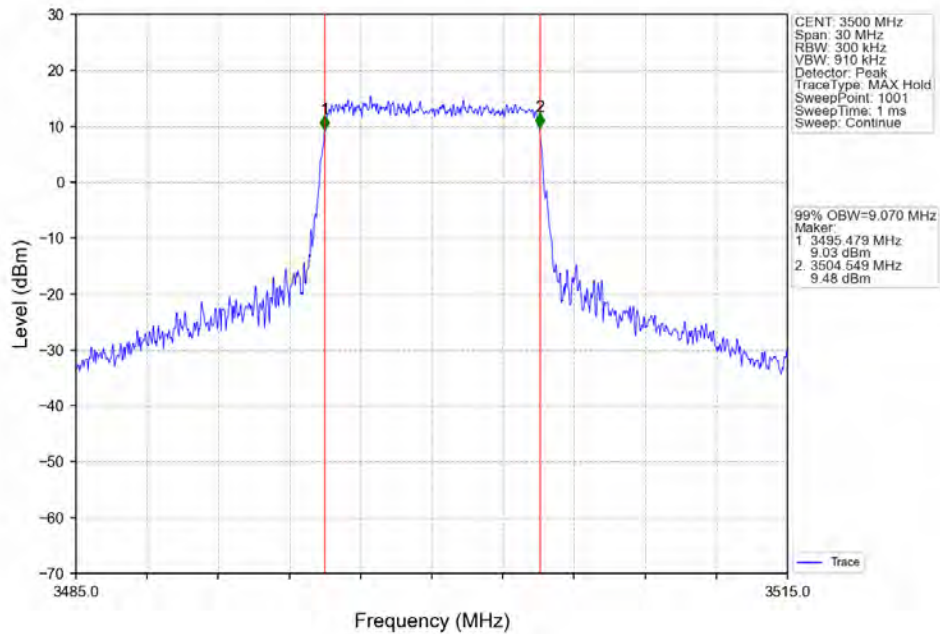
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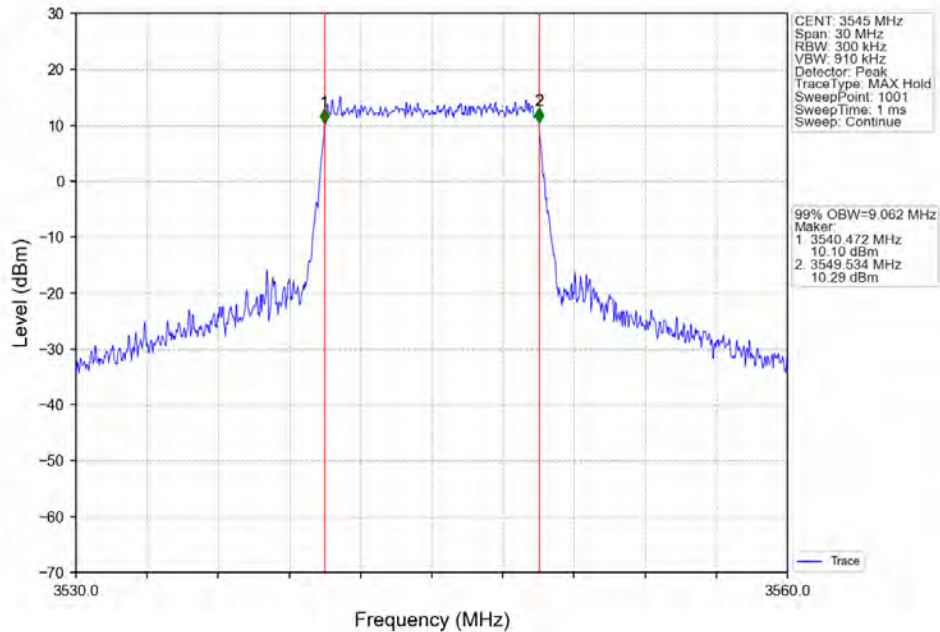
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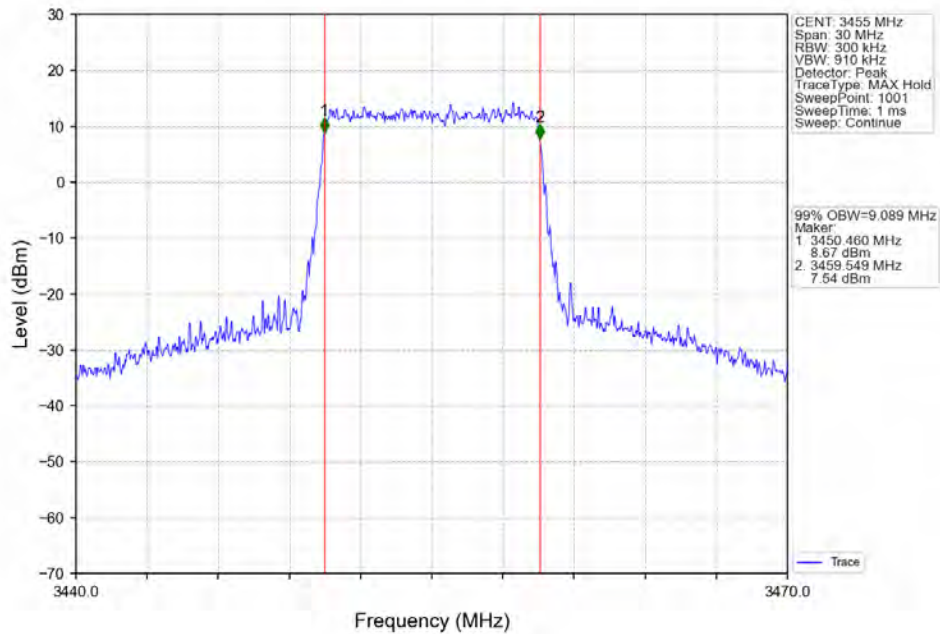
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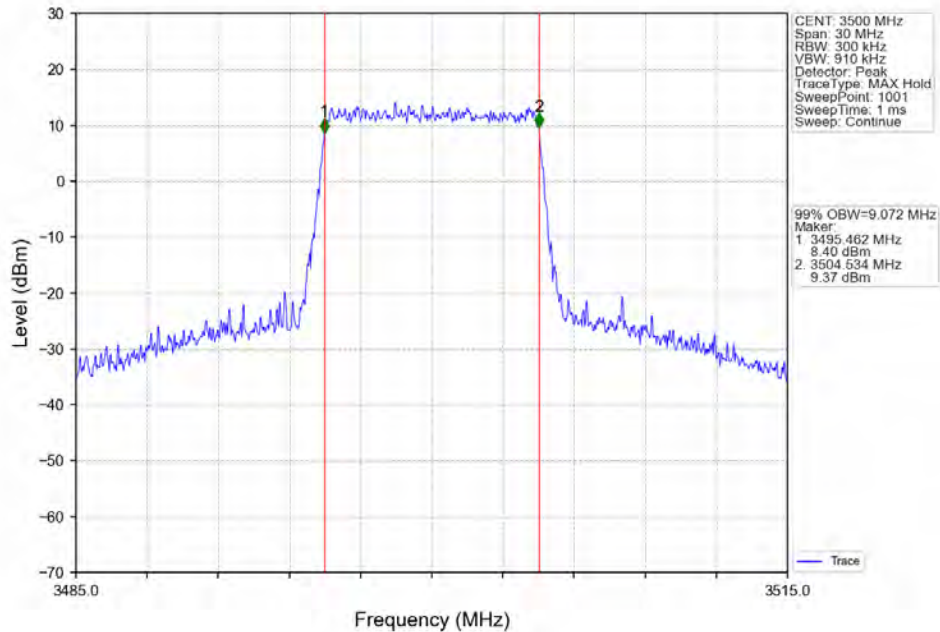
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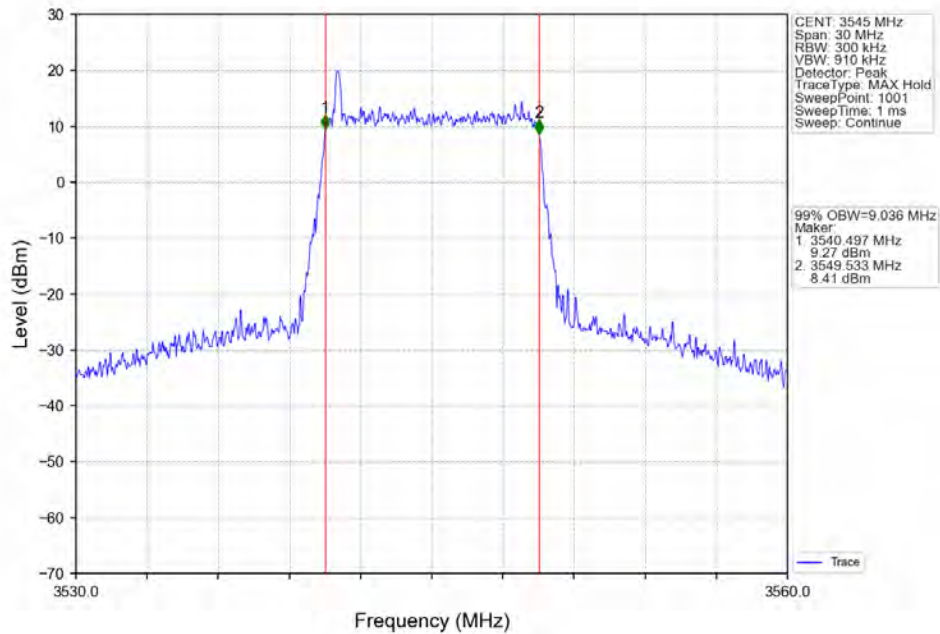
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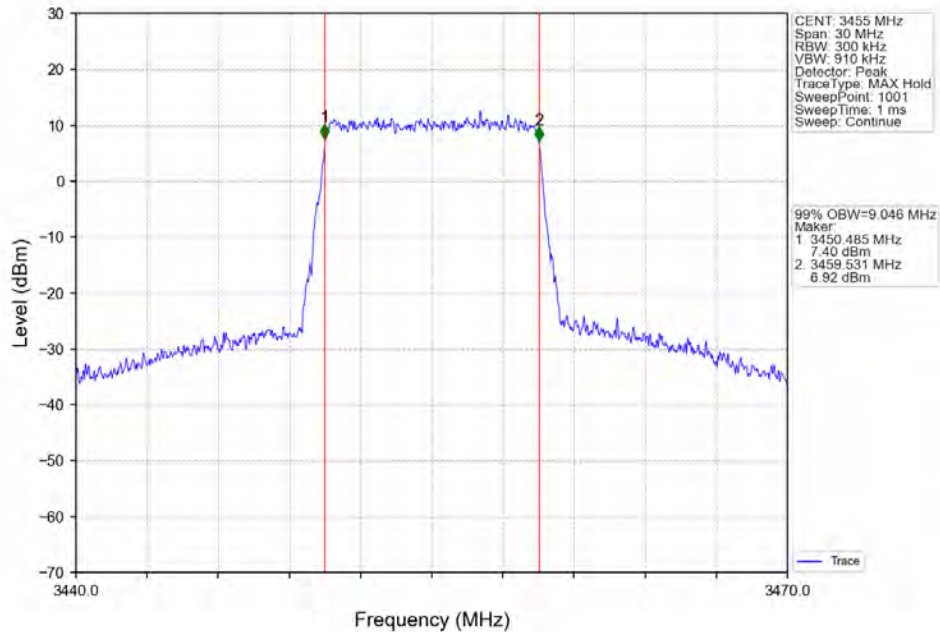
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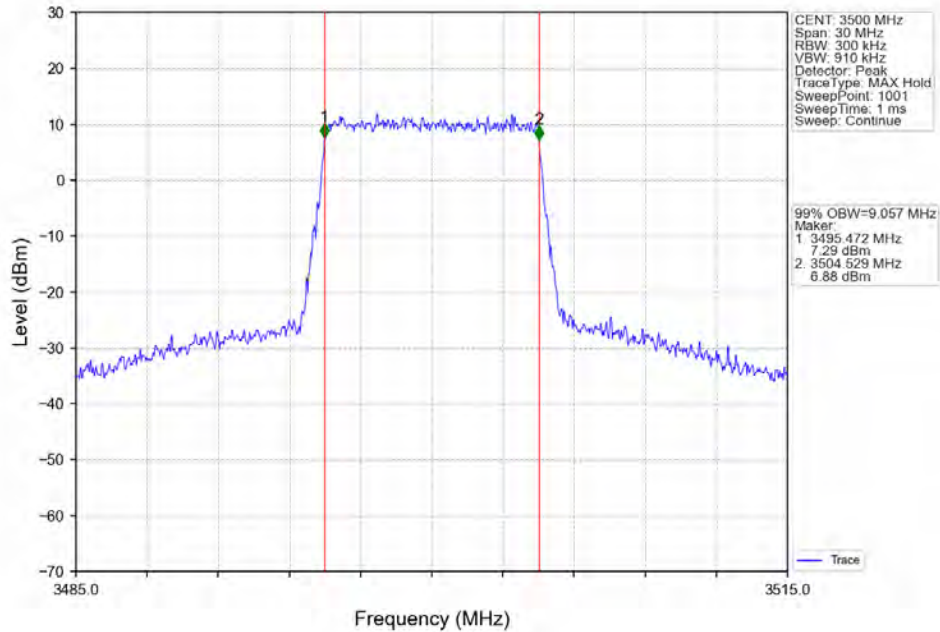
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Band42a_10MHz_256QAM_HCH_3545MHz_RB_50_0_NTNV



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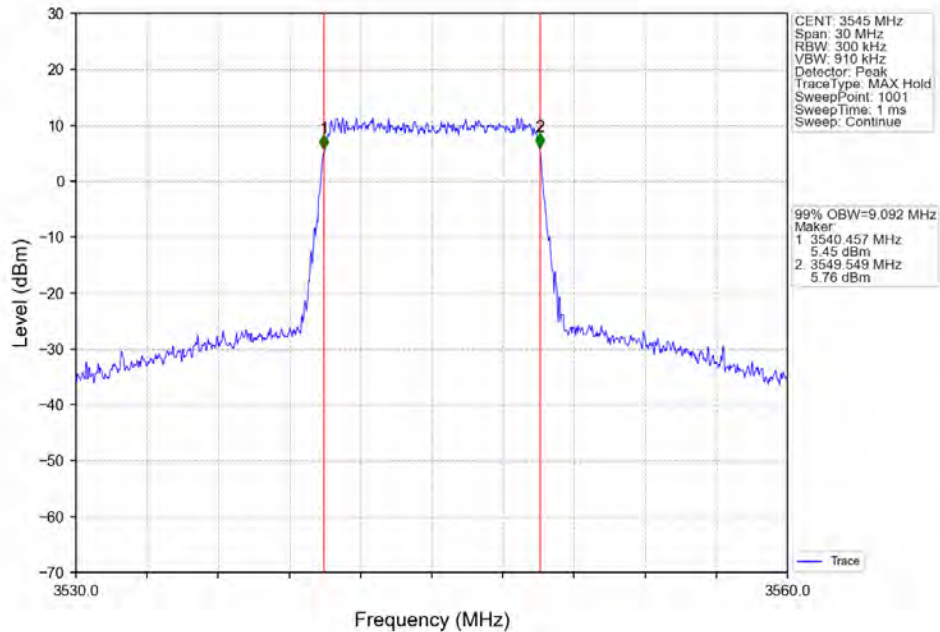
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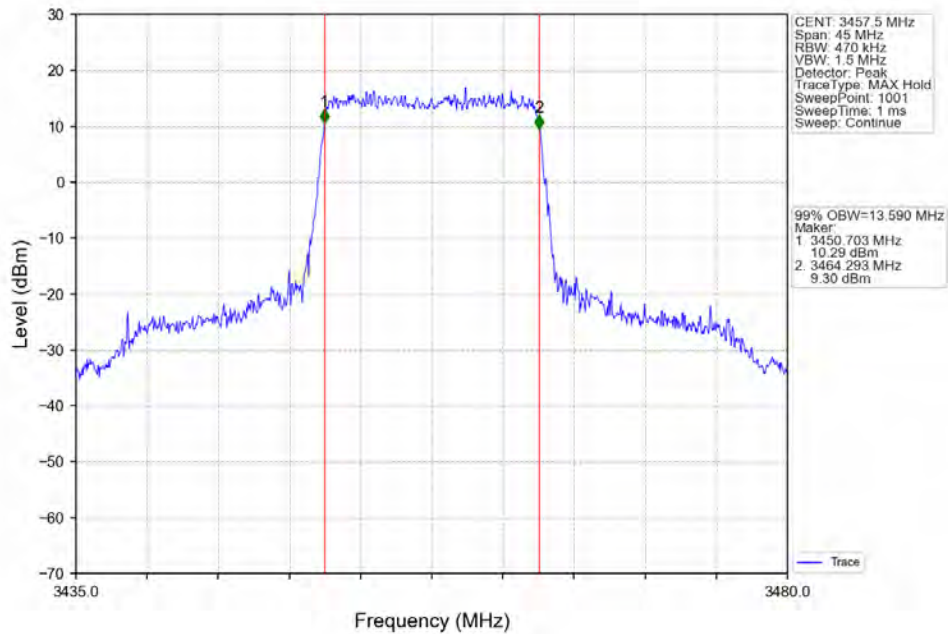
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Band42a_15MHz_QPSK_MCH_3500MHz_RB_75_0_NTNV



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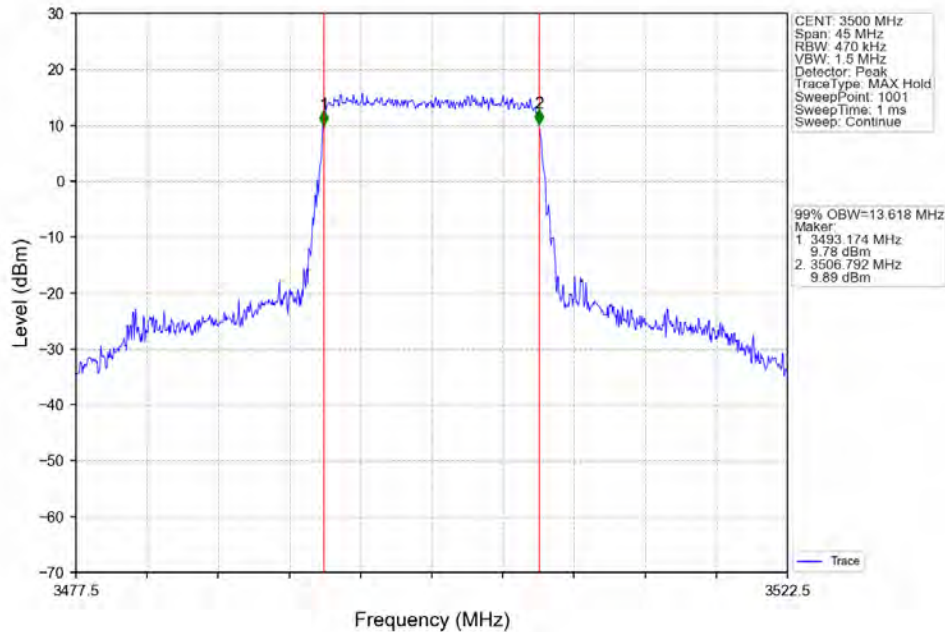
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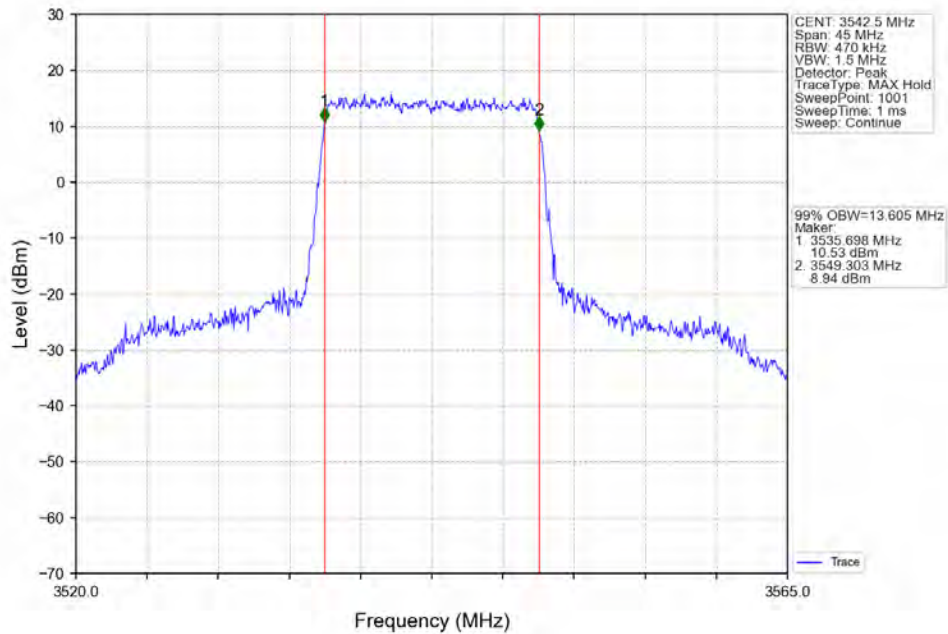
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Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



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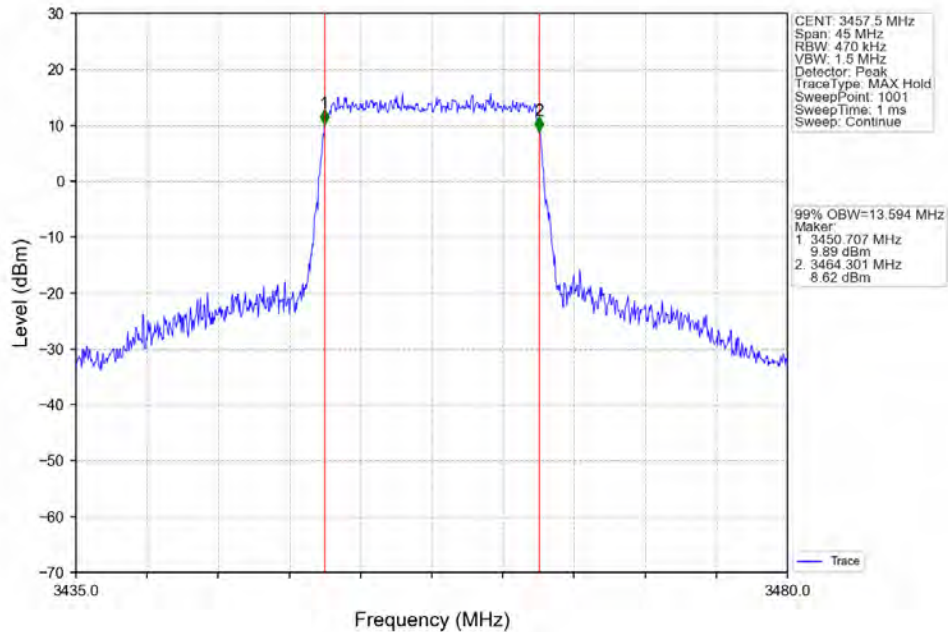
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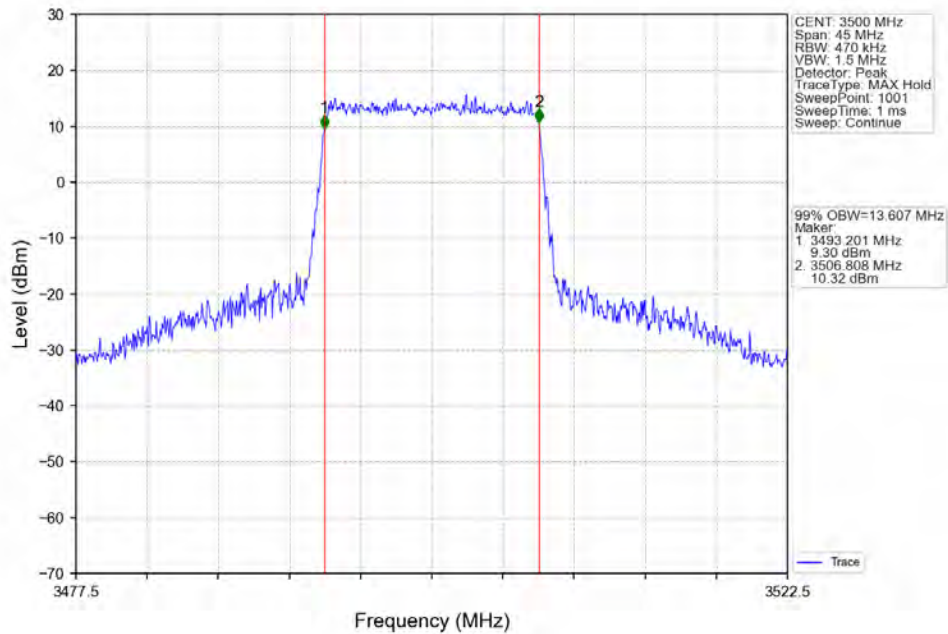
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Band42a_15MHz_16QAM_HCH_3542.5MHz_RB_75_0_NTNV



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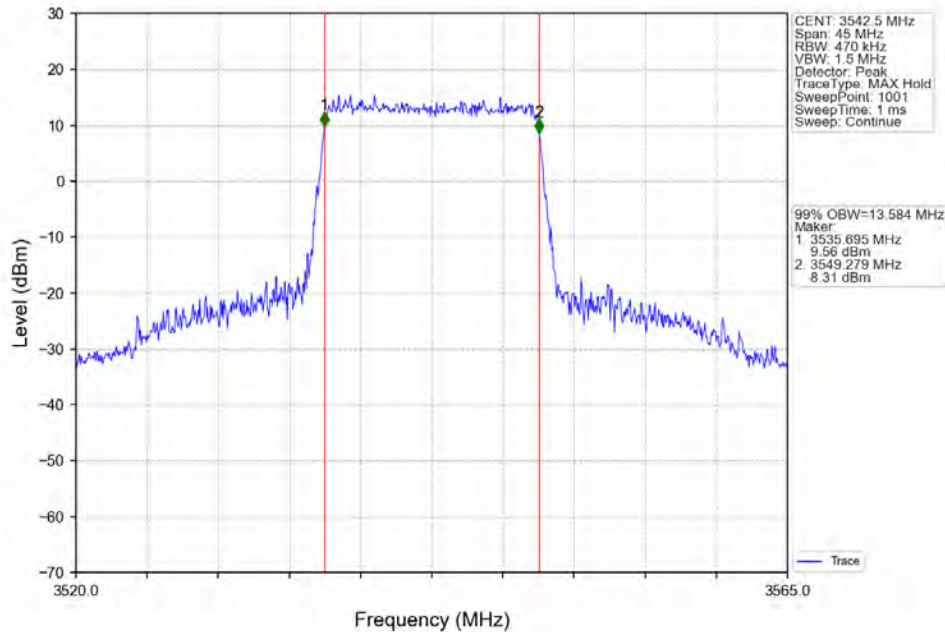
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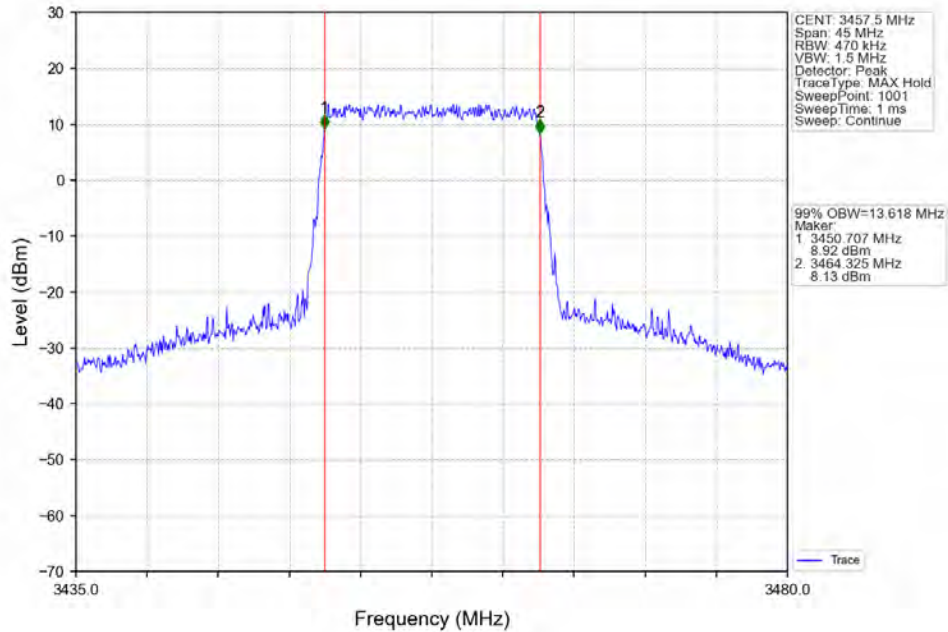
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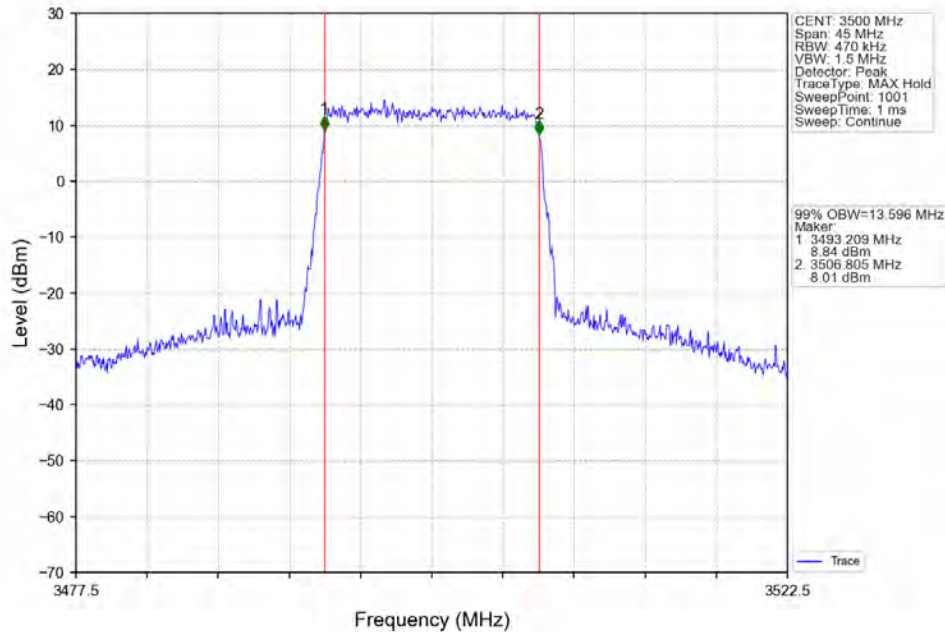
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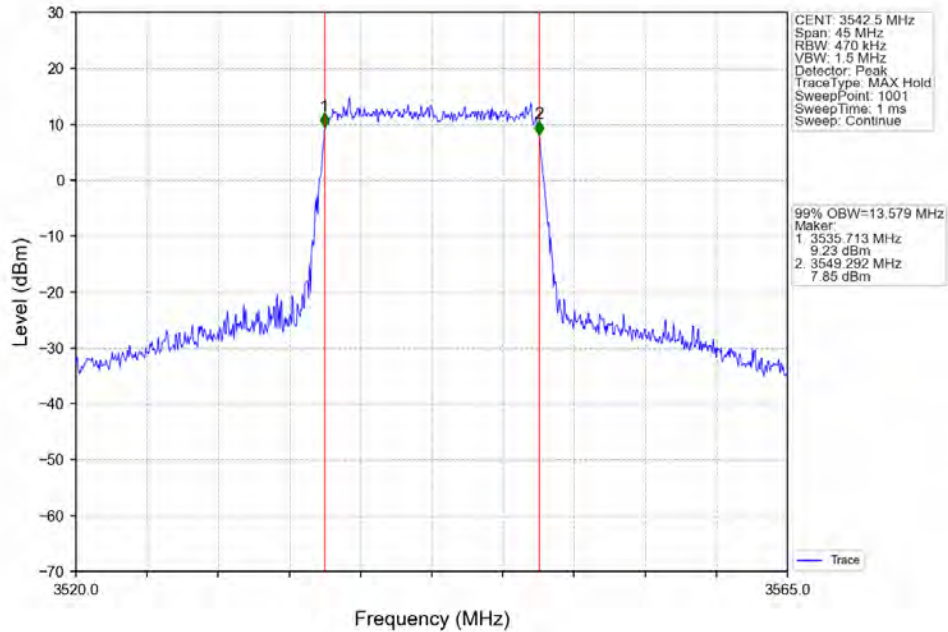
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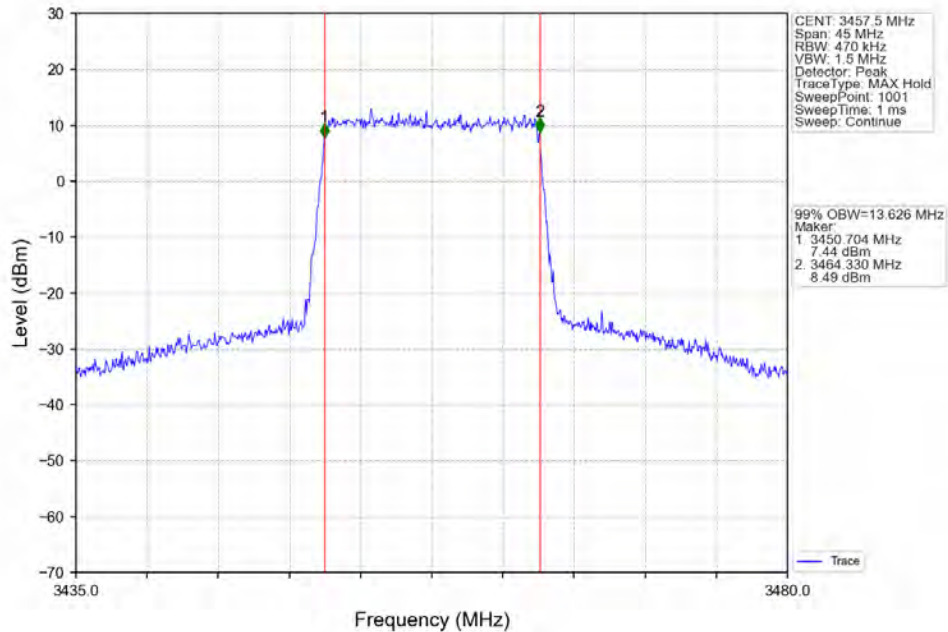
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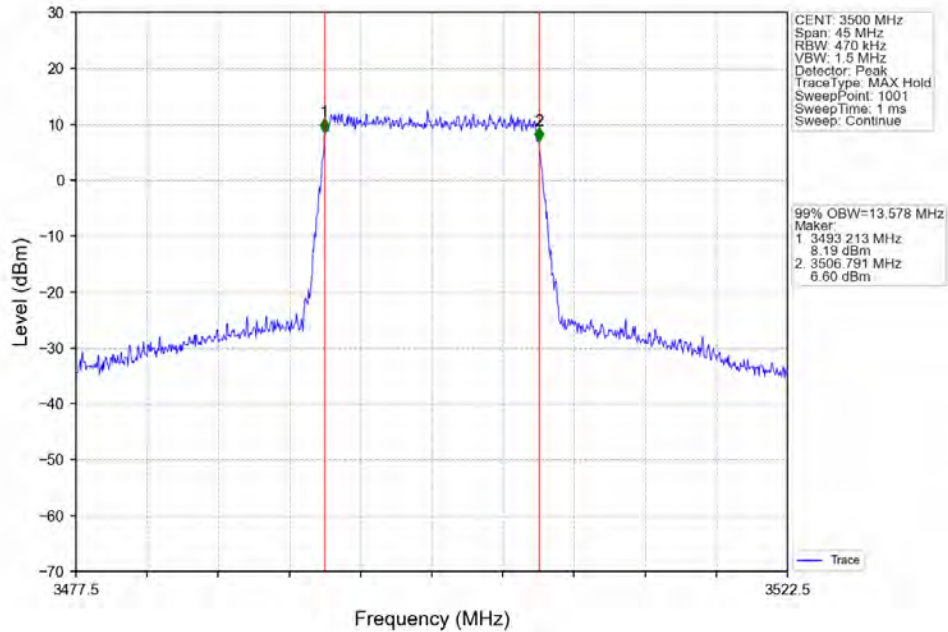
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Band42a_15MHz_256QAM_MCH_3500MHz_RB_75_0_NTNV



Band42a_15MHz_256QAM_HCH_3542.5MHz_RB_75_0_NTNV



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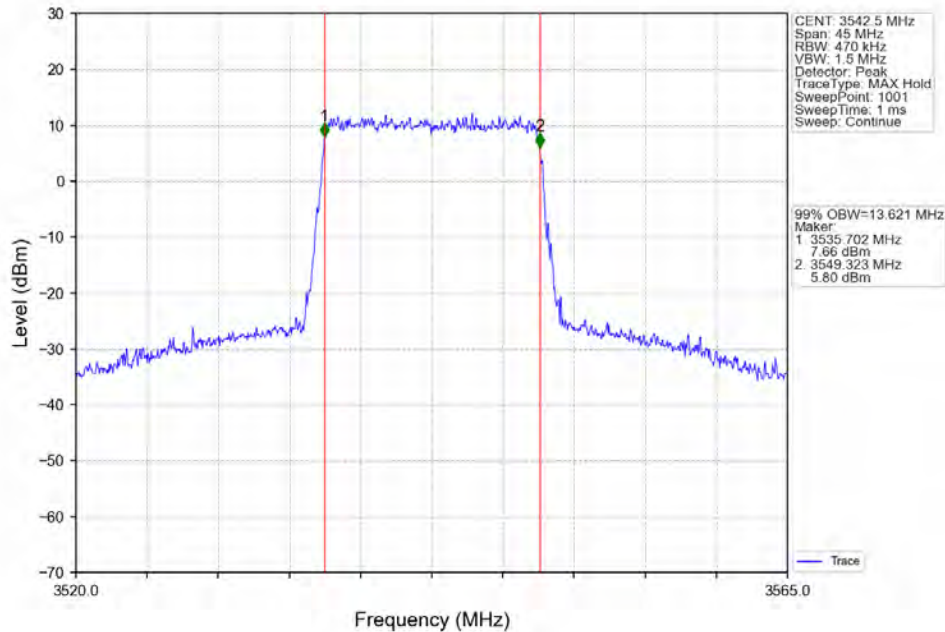
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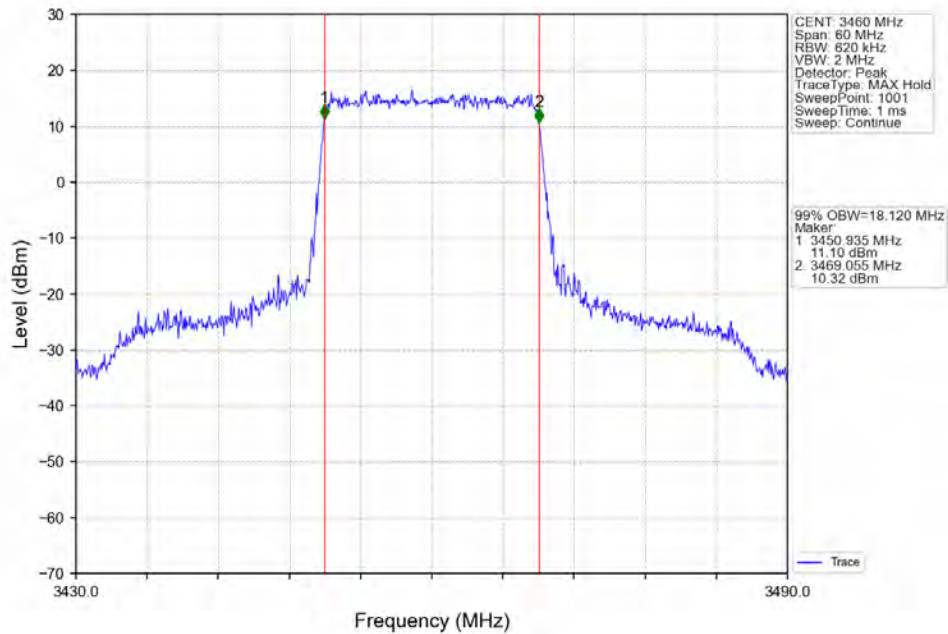
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Band42a_20MHz_QPSK_MCH_3500MHz_RB_100_0_NTNV



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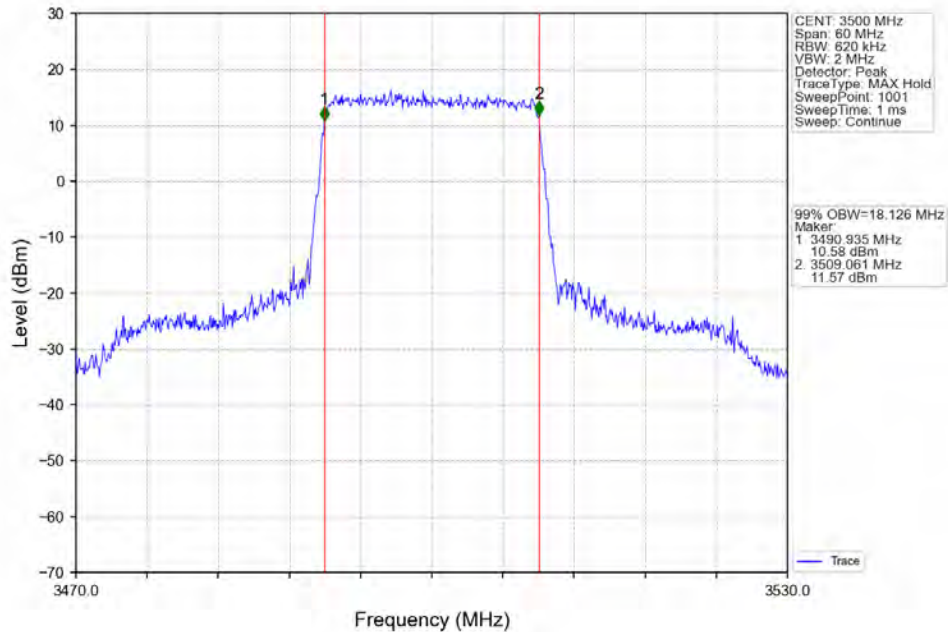
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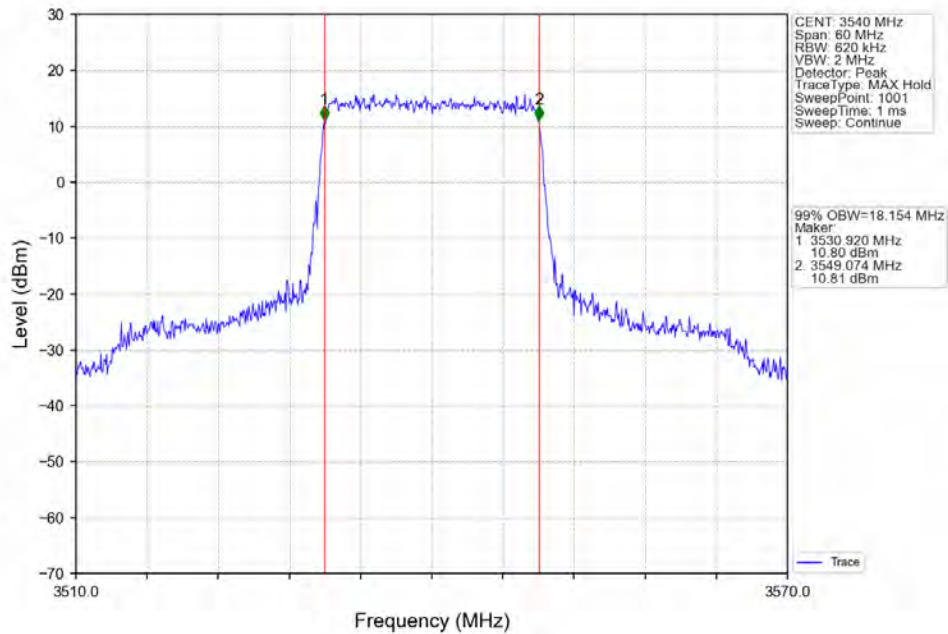
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Band42a_20MHz QPSK HCH 3540MHz_RB_100_0_NTNV



Band42a_20MHz 16QAM LCH 3460MHz_RB_100_0_NTNV



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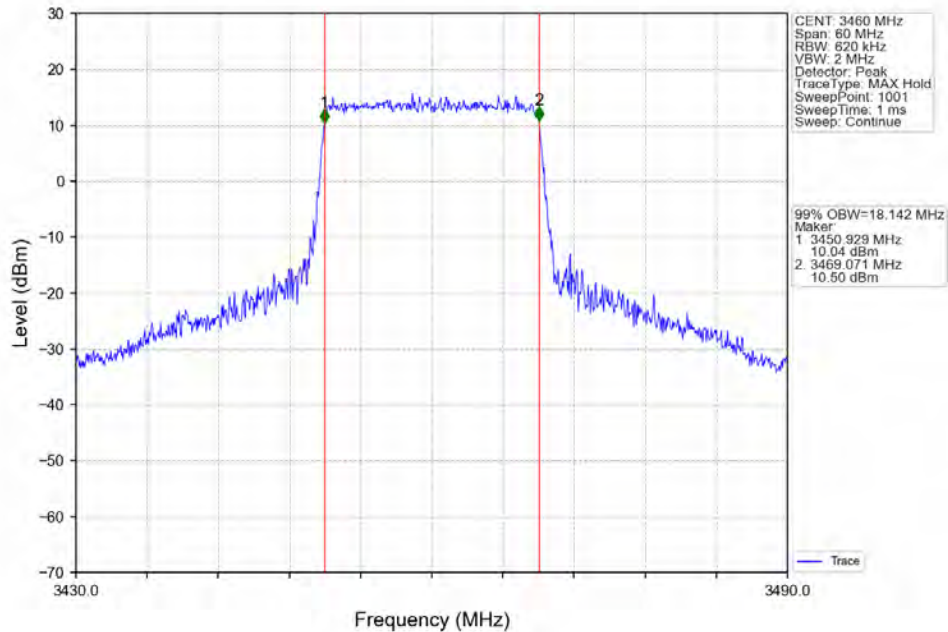
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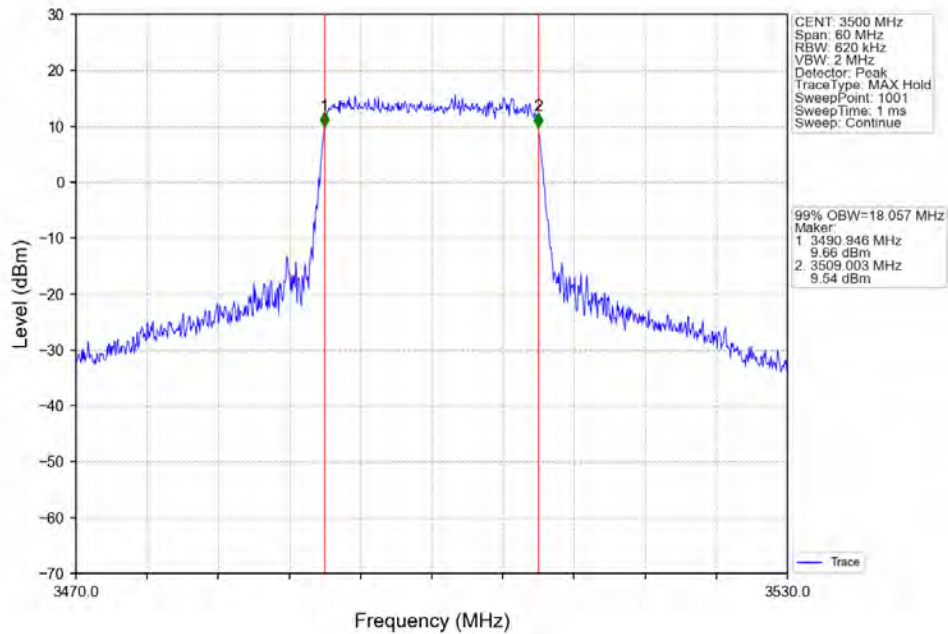
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Band42a_20MHz_16QAM_HCH_3540MHz_RB_100_0_NTNV



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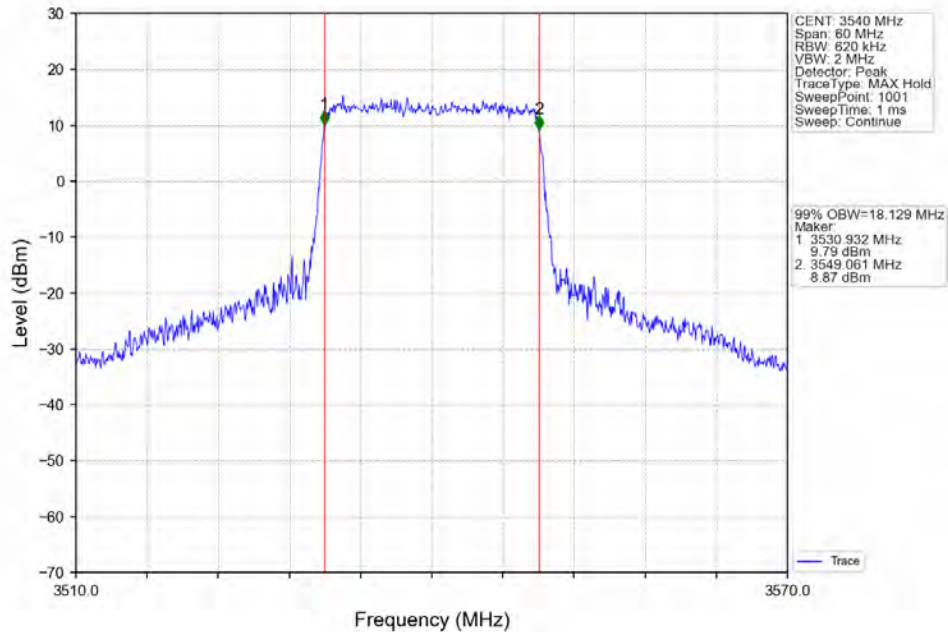
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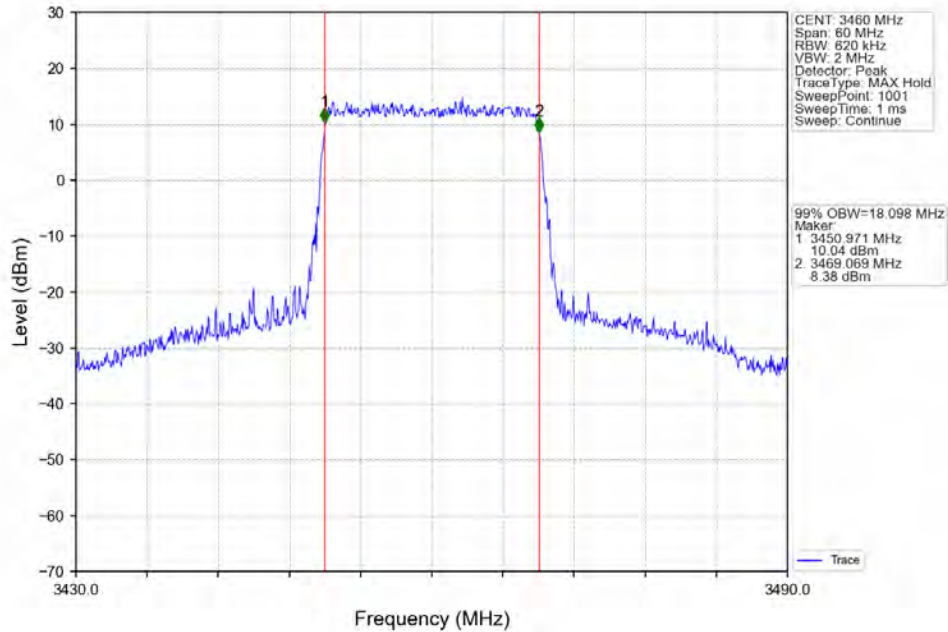
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Band42a 20MHz 64QAM LCH 3460MHz RB 100 0 NTNV



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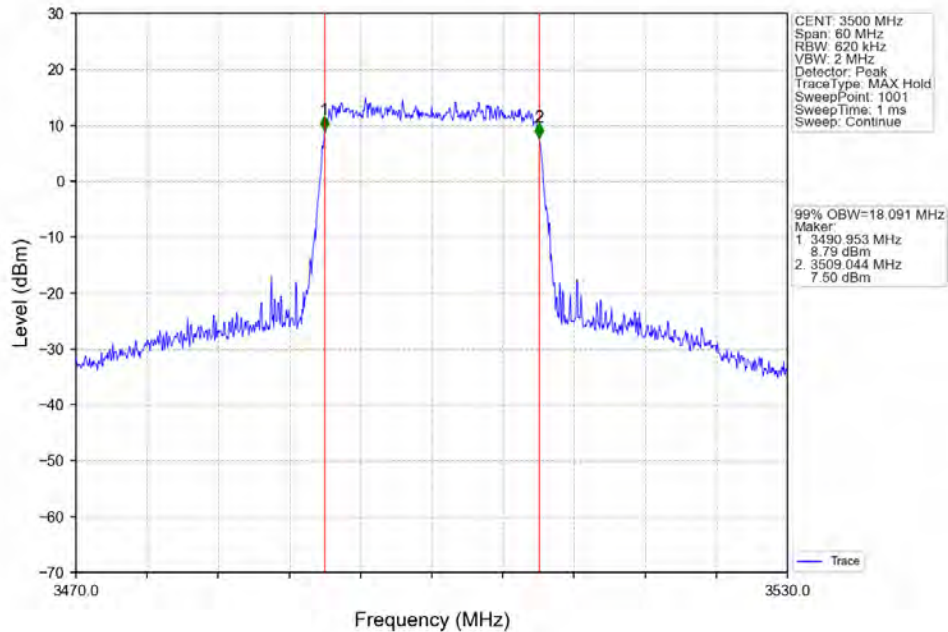
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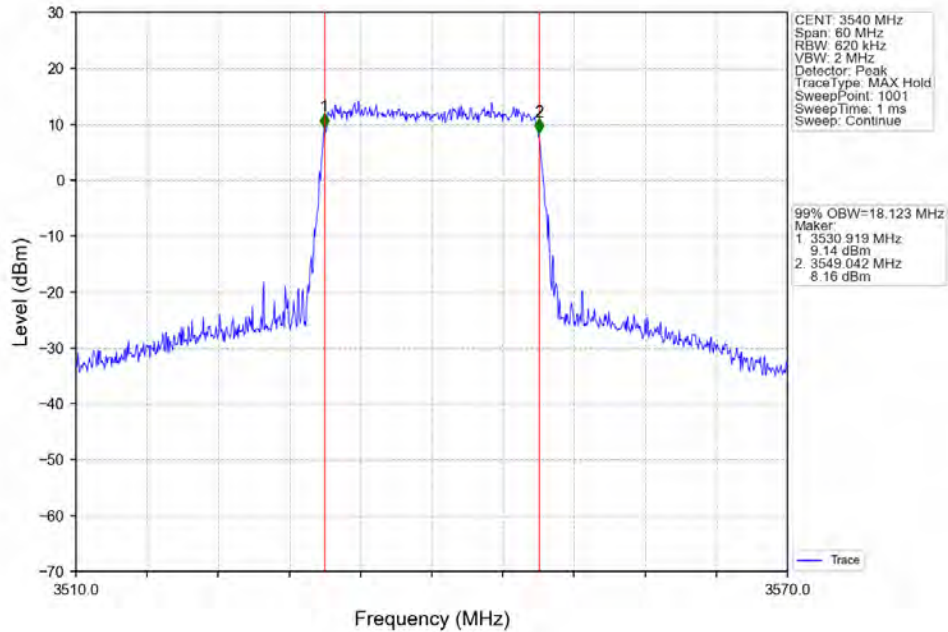
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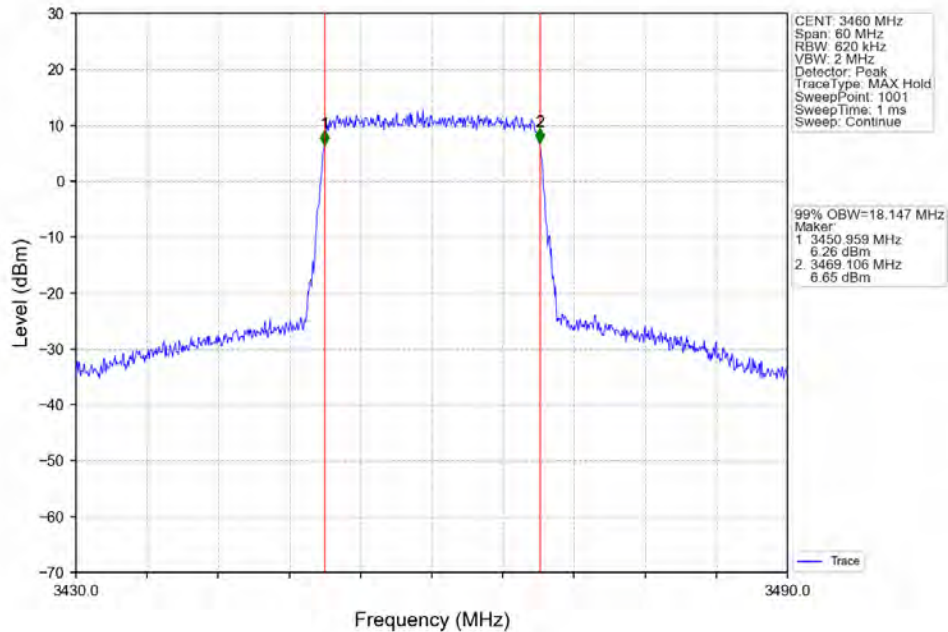
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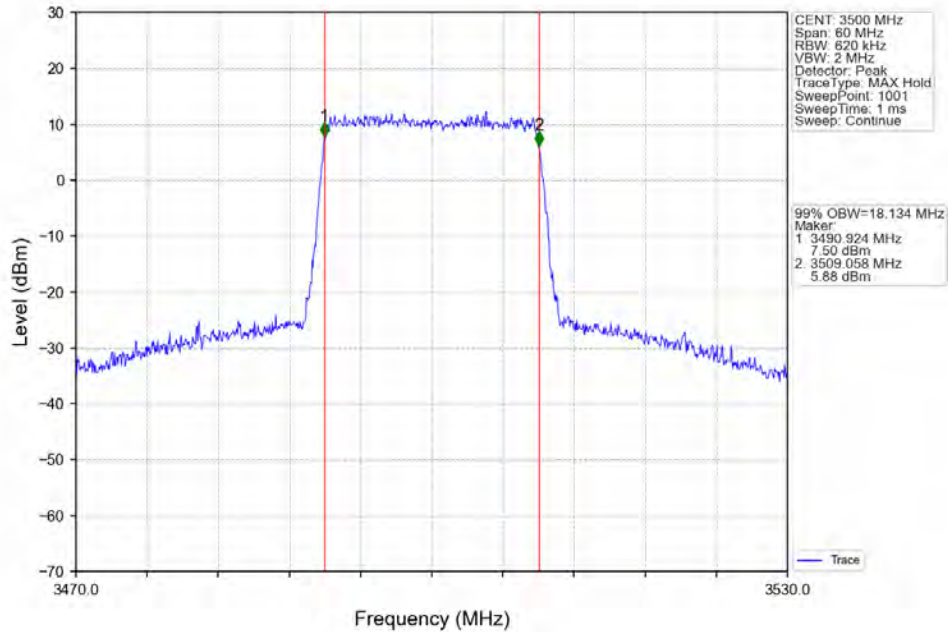
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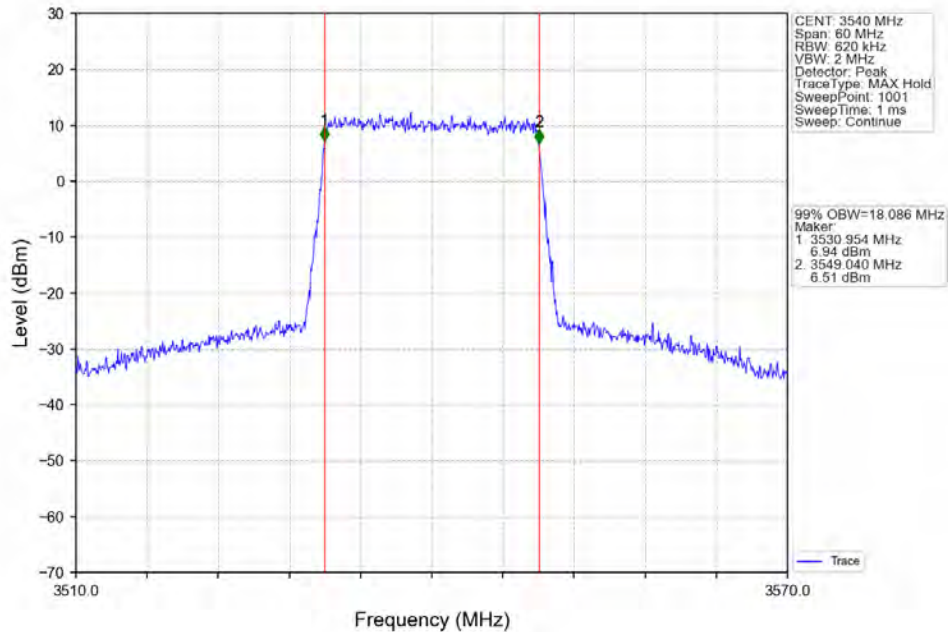
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4.2 Band42a_XDB

4.2.1 Test Result

Band: 42a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3452.5	25	0	5.287	/	Pass
		3500	25	0	5.216	/	Pass
		3547.5	25	0	5.261	/	Pass
	16QAM	3452.5	25	0	5.272	/	Pass
		3500	25	0	5.235	/	Pass
		3547.5	25	0	5.252	/	Pass
	64QAM	3452.5	25	0	5.201	/	Pass
		3500	25	0	5.201	/	Pass
		3547.5	25	0	5.186	/	Pass
	256QAM	3452.5	25	0	5.217	/	Pass
		3500	25	0	5.276	/	Pass
		3547.5	25	0	5.229	/	Pass
10	QPSK	3455	50	0	10.155	/	Pass
		3500	50	0	10.114	/	Pass
		3545	50	0	10.210	/	Pass
	16QAM	3455	50	0	10.234	/	Pass
		3500	50	0	10.188	/	Pass
		3545	50	0	10.101	/	Pass
	64QAM	3455	50	0	10.094	/	Pass
		3500	50	0	10.128	/	Pass
		3545	50	0	9.770	/	Pass
	256QAM	3455	50	0	10.091	/	Pass
		3500	50	0	10.179	/	Pass
		3545	50	0	10.171	/	Pass
15	QPSK	3457.5	75	0	15.094	/	Pass
		3500	75	0	15.305	/	Pass
		3542.5	75	0	15.020	/	Pass
	16QAM	3457.5	75	0	15.039	/	Pass
		3500	75	0	15.202	/	Pass
		3542.5	75	0	15.100	/	Pass
	64QAM	3457.5	75	0	15.103	/	Pass
		3500	75	0	14.977	/	Pass
		3542.5	75	0	15.118	/	Pass
	256QAM	3457.5	75	0	14.935	/	Pass
		3500	75	0	15.104	/	Pass
		3542.5	75	0	15.112	/	Pass
20	QPSK	3460	100	0	20.121	/	Pass
		3500	100	0	19.924	/	Pass
		3540	100	0	20.045	/	Pass



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	16QAM	3460	100	0	20.319	/	Pass
		3500	100	0	19.919	/	Pass
		3540	100	0	20.069	/	Pass
	64QAM	3460	100	0	20.049	/	Pass
		3500	100	0	19.947	/	Pass
		3540	100	0	19.884	/	Pass
	256QAM	3460	100	0	19.938	/	Pass
		3500	100	0	19.921	/	Pass
		3540	100	0	20.011	/	Pass



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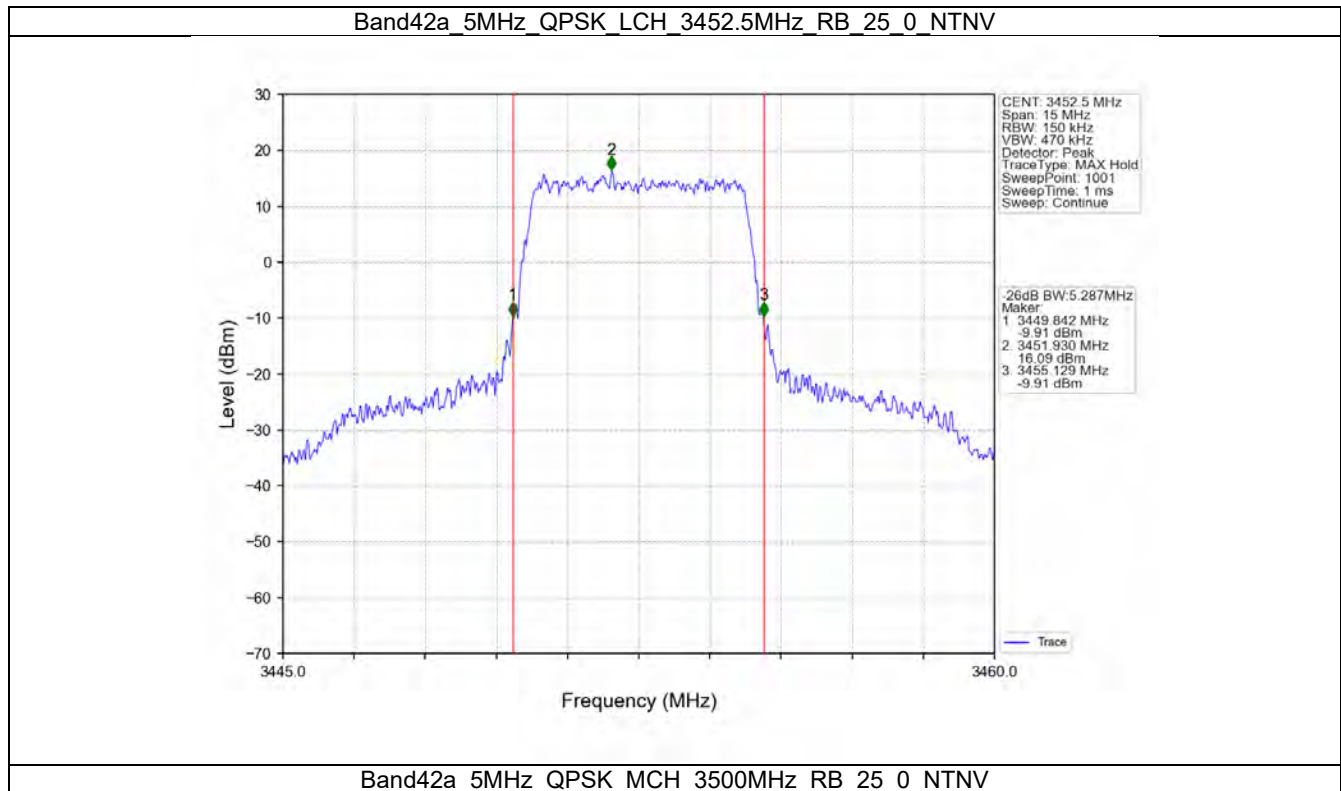
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4.2.2 Test Graph



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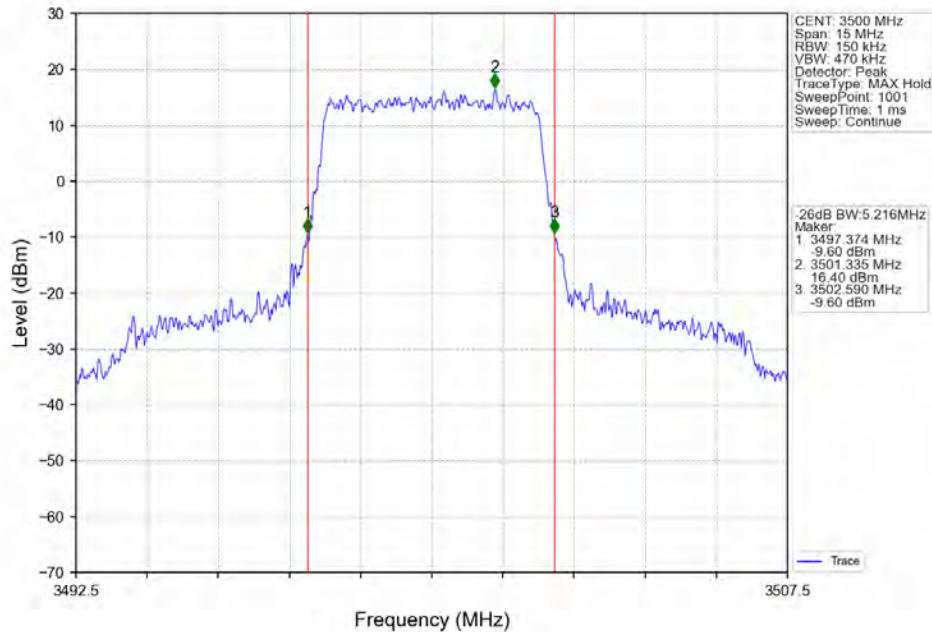
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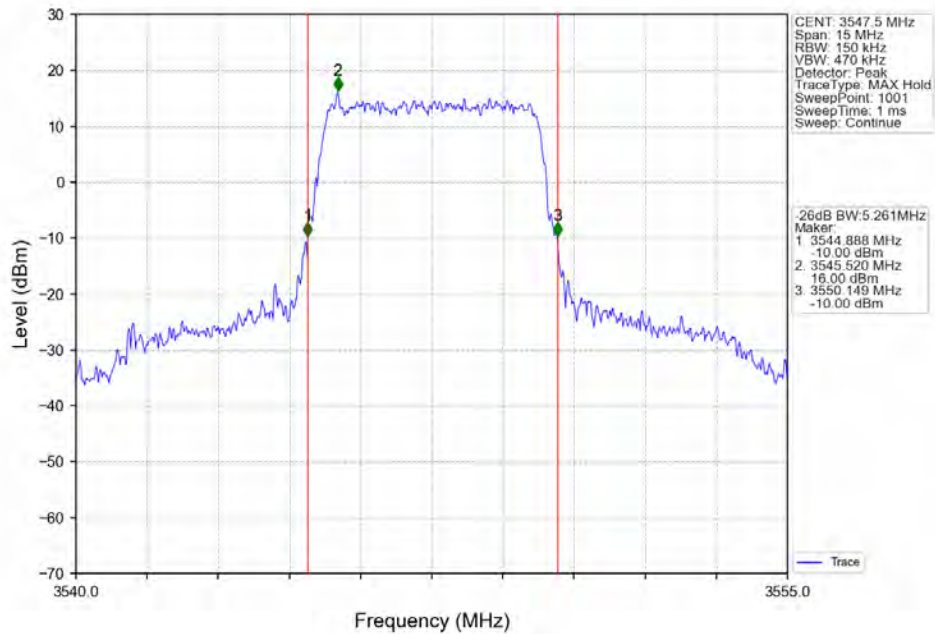
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Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_LCH_3452.5MHz_RB_25_0_NTNV



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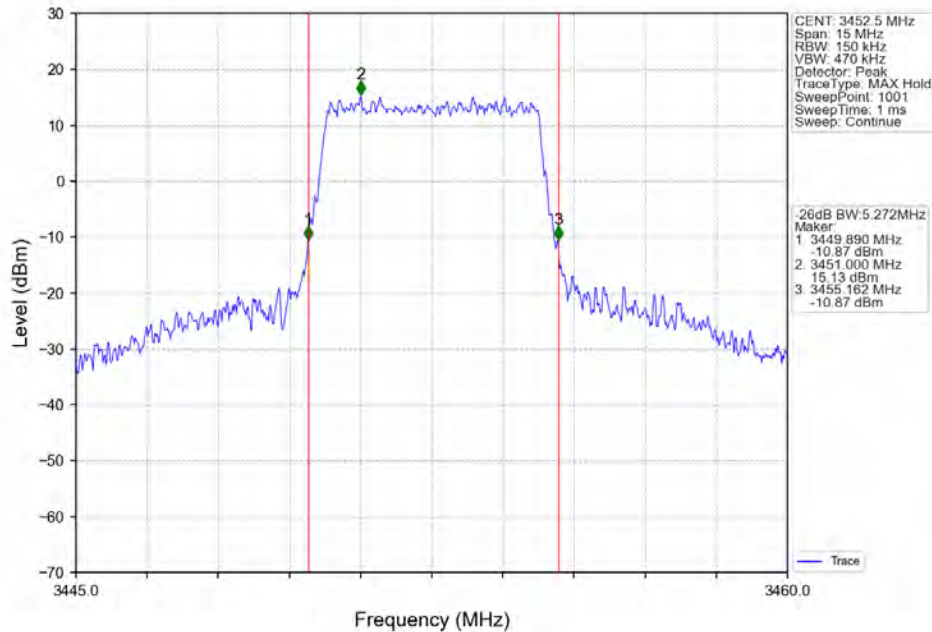
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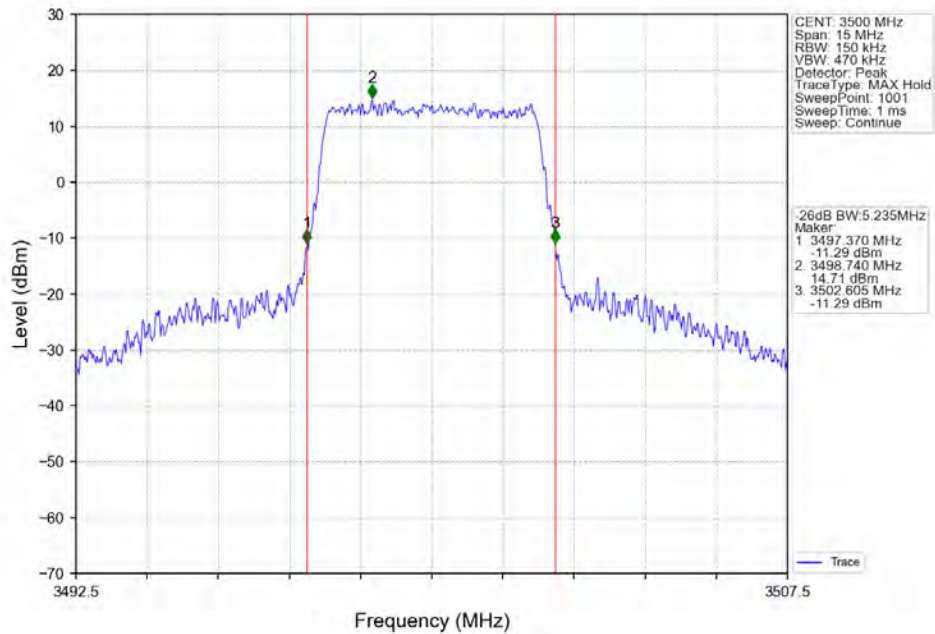
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Band42a_5MHz_16QAM_HCH_3547.5MHz_RB_25_0_NTNV



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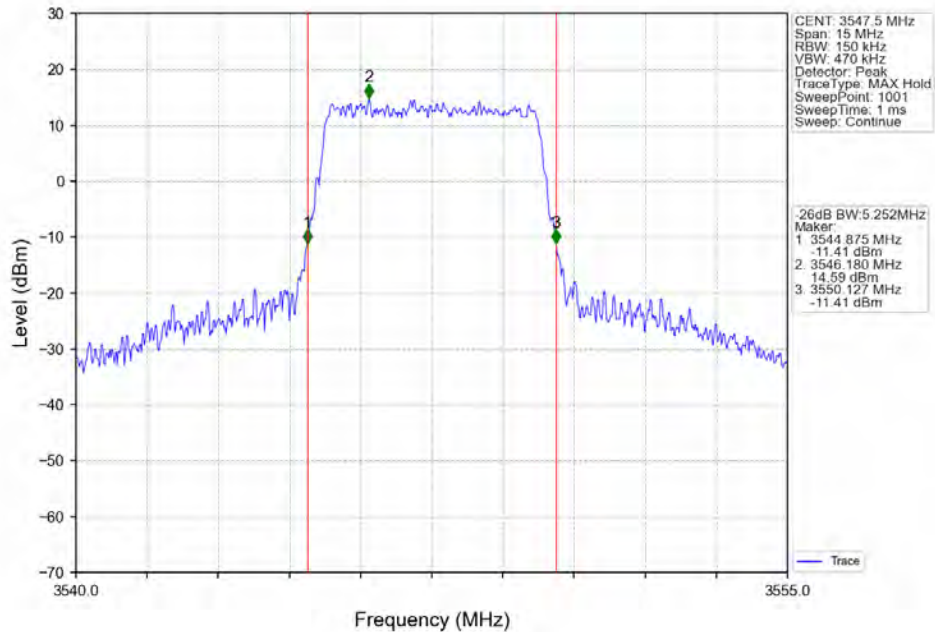
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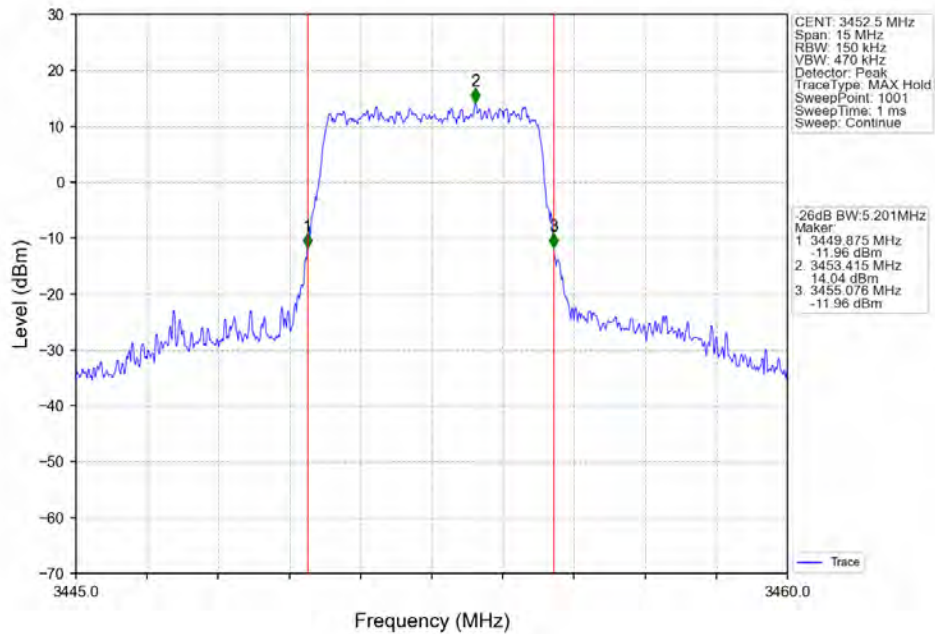
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Band42a_5MHz_64QAM_MCH_3500MHz_RB_25_0_NTNV



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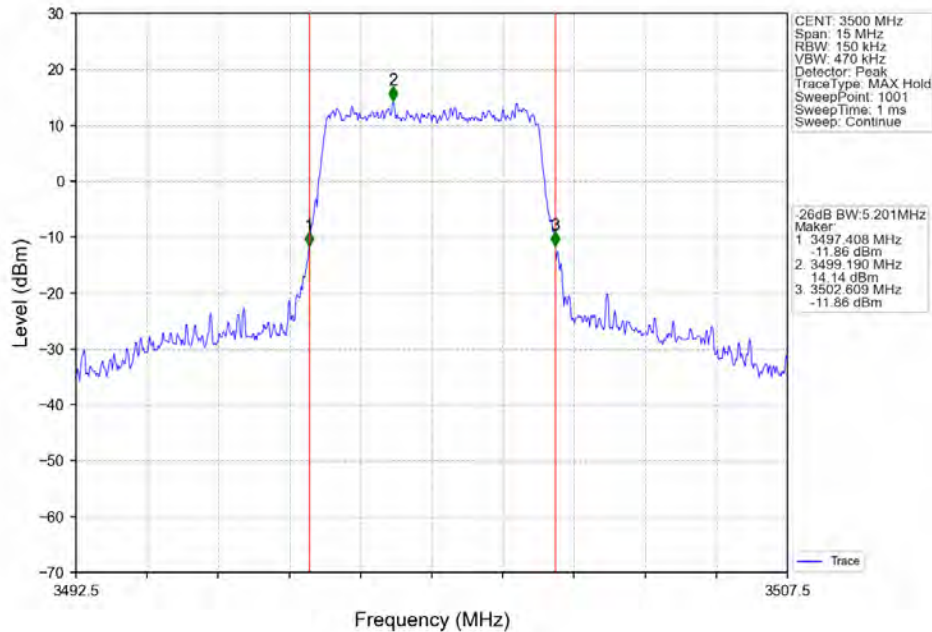
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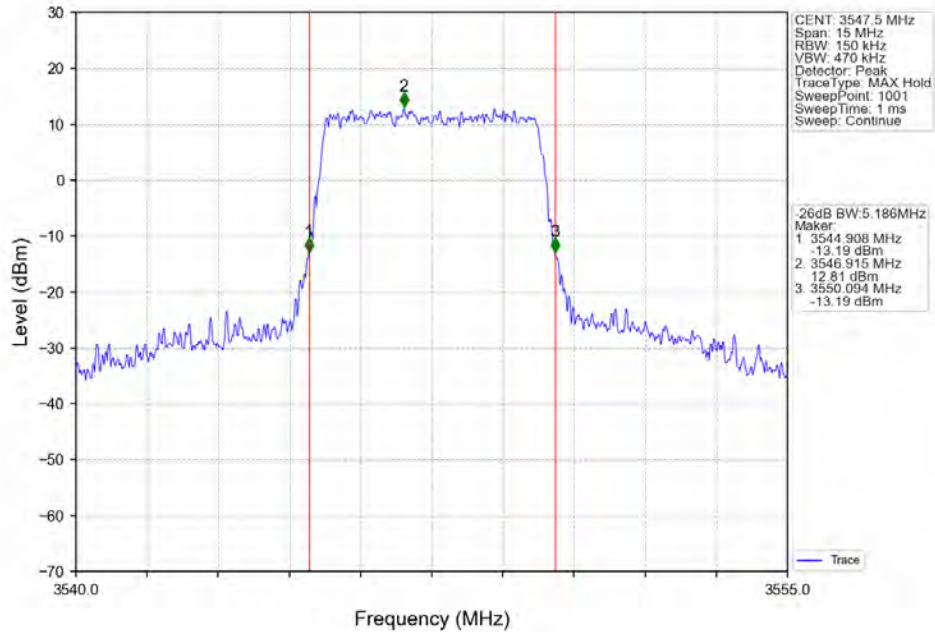
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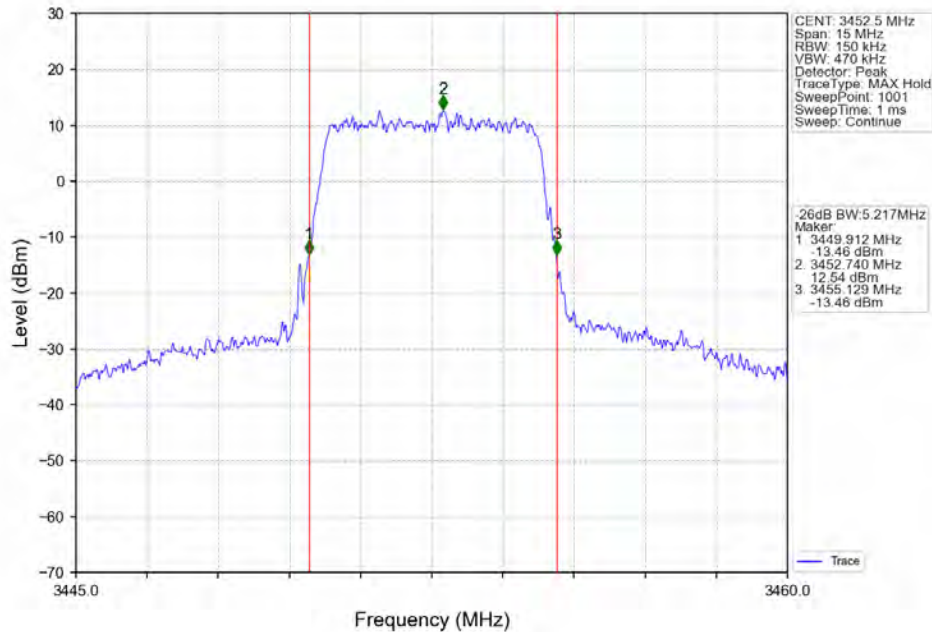
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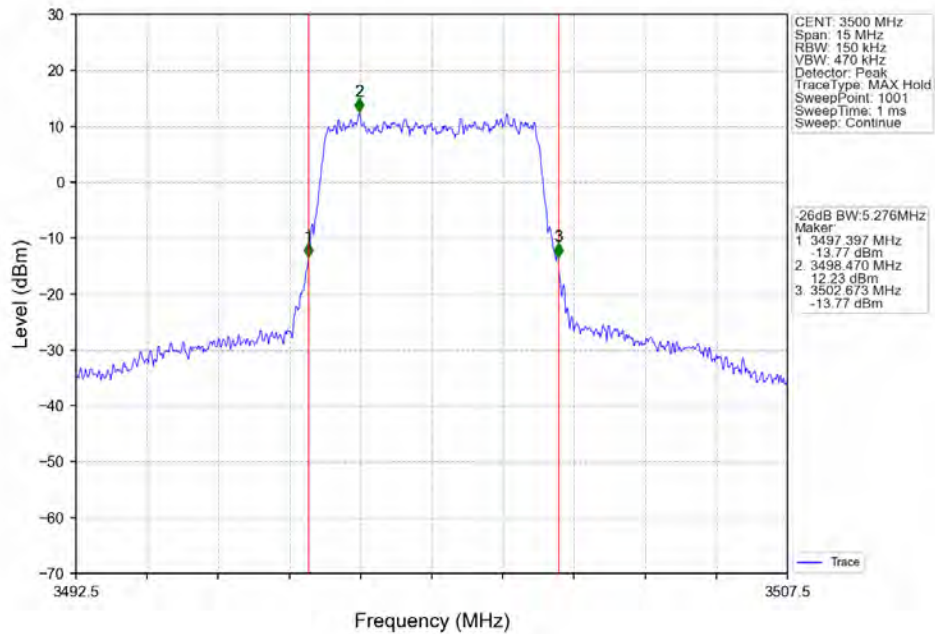
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Band42a_5MHz_256QAM_HCH_3547.5MHz_RB_25_0_NTNV



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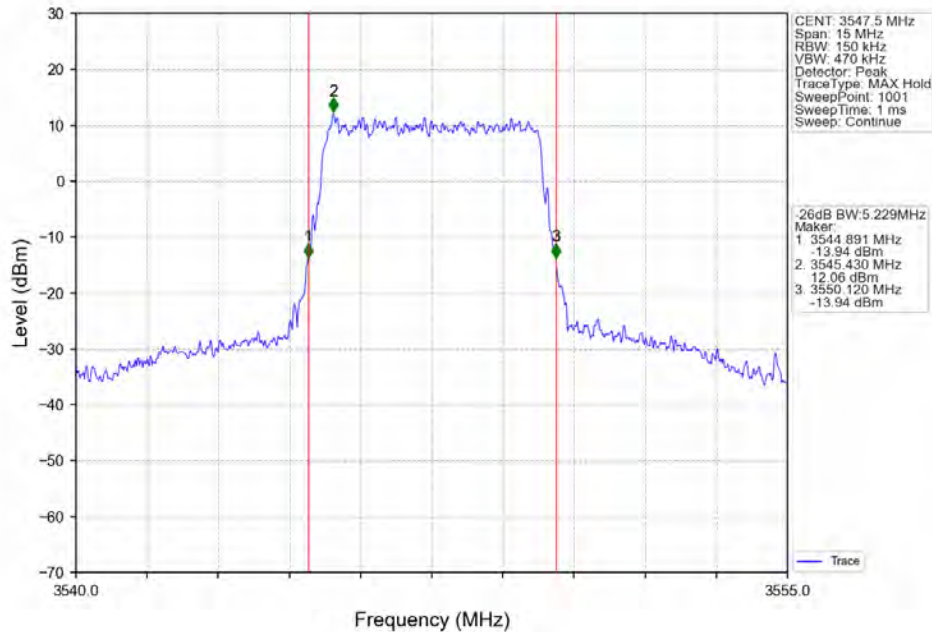
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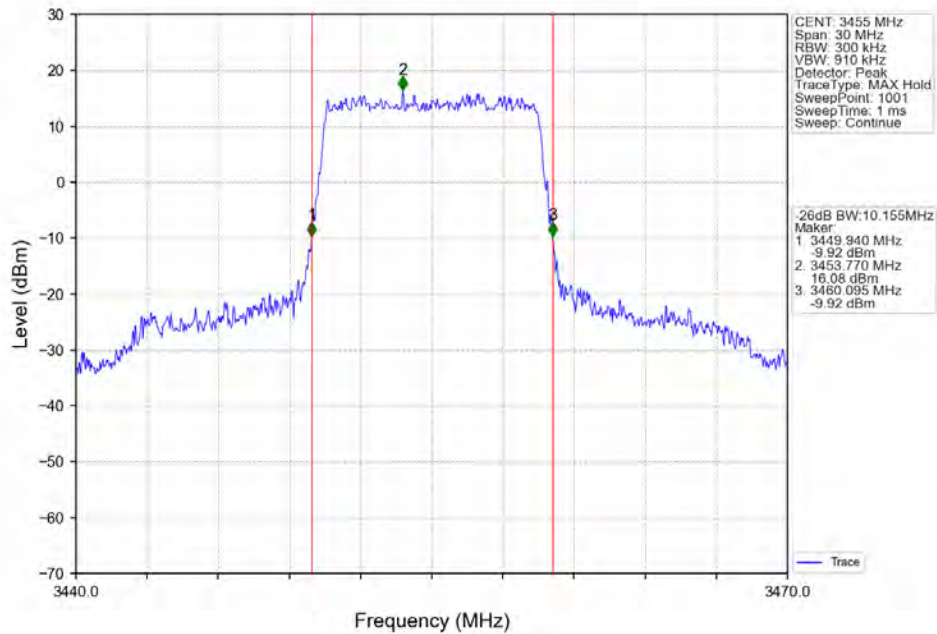
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Band42a 10MHz QPSK LCH 3455MHz RB 50 0 NTN



Band42a 10MHz QPSK MCH 3500MHz RB 50 0 NTN



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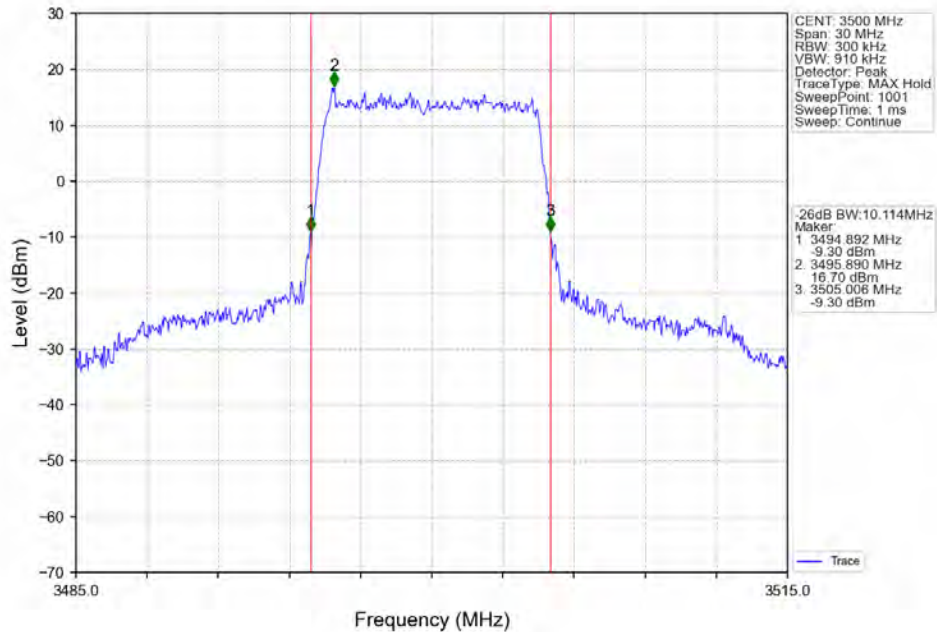
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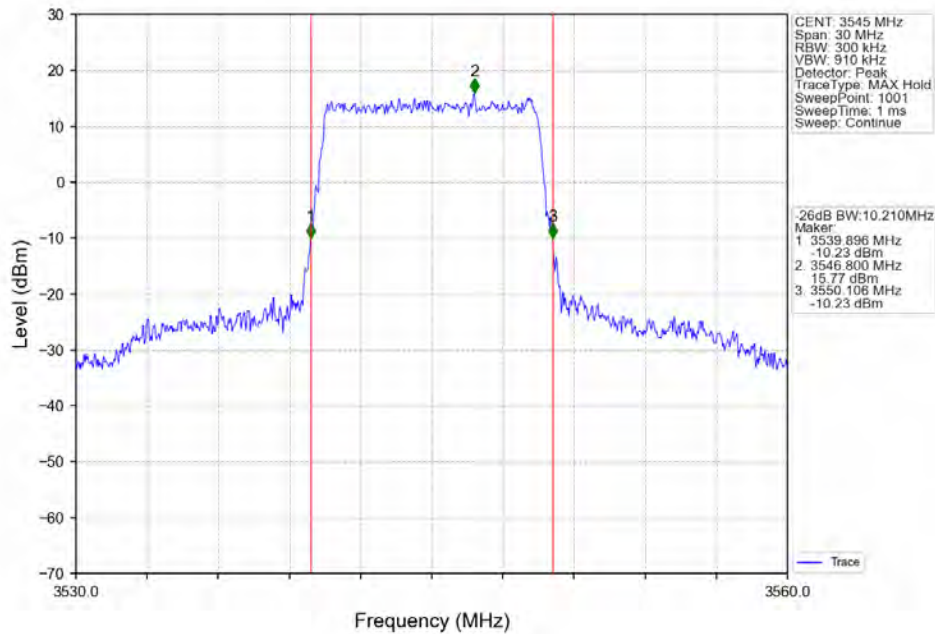
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Band42a_10MHz_16QAM_LCH_3455MHz_RB_50_0_NTNV



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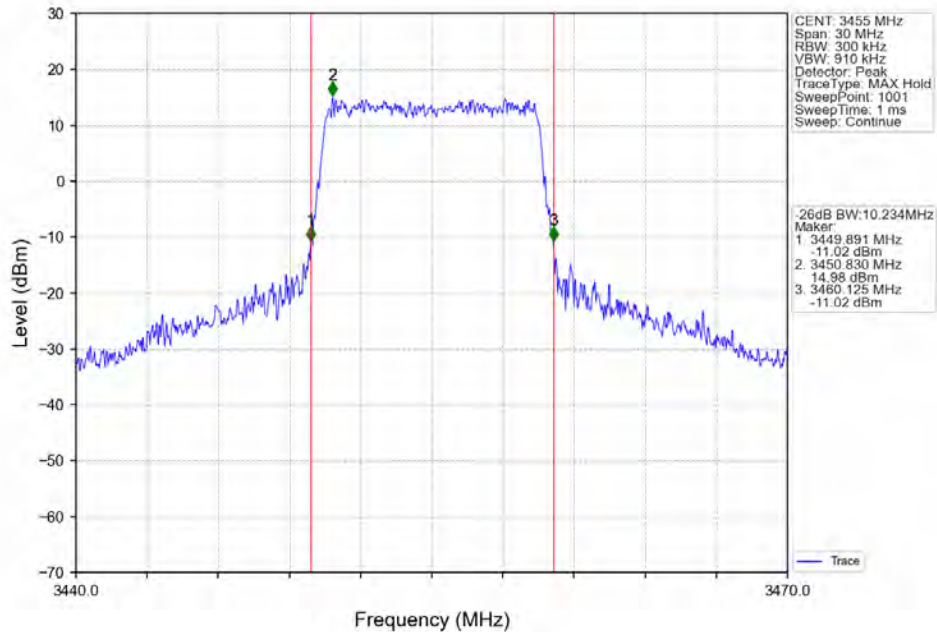
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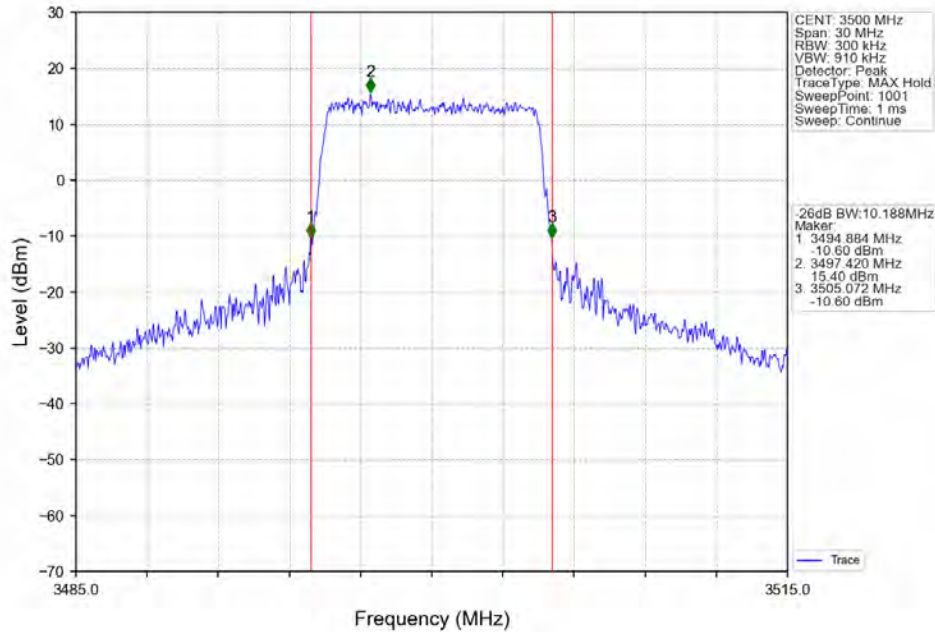
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Band42a_10MHz_16QAM_HCH_3545MHz_RB_50_0_NTNV



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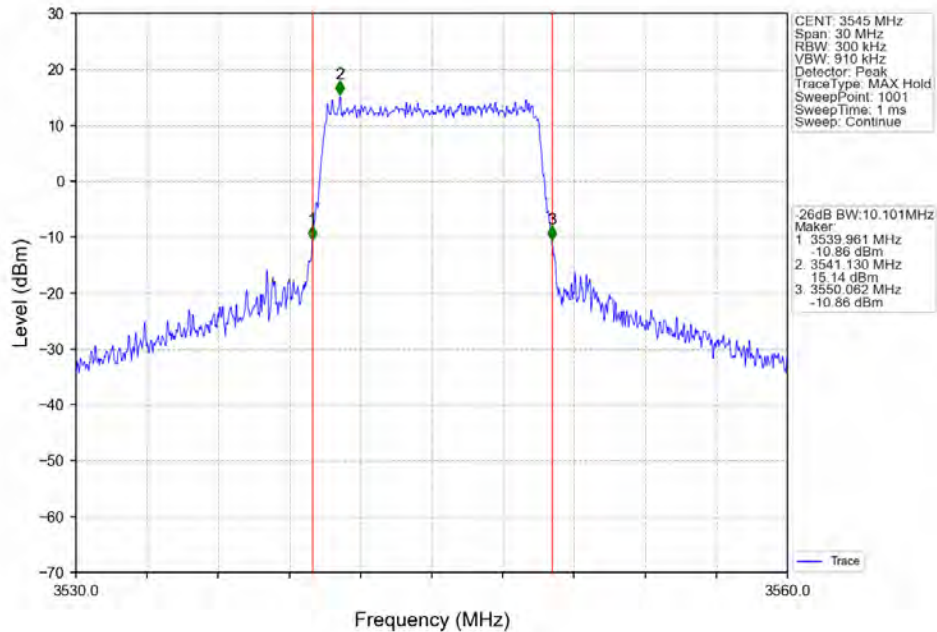
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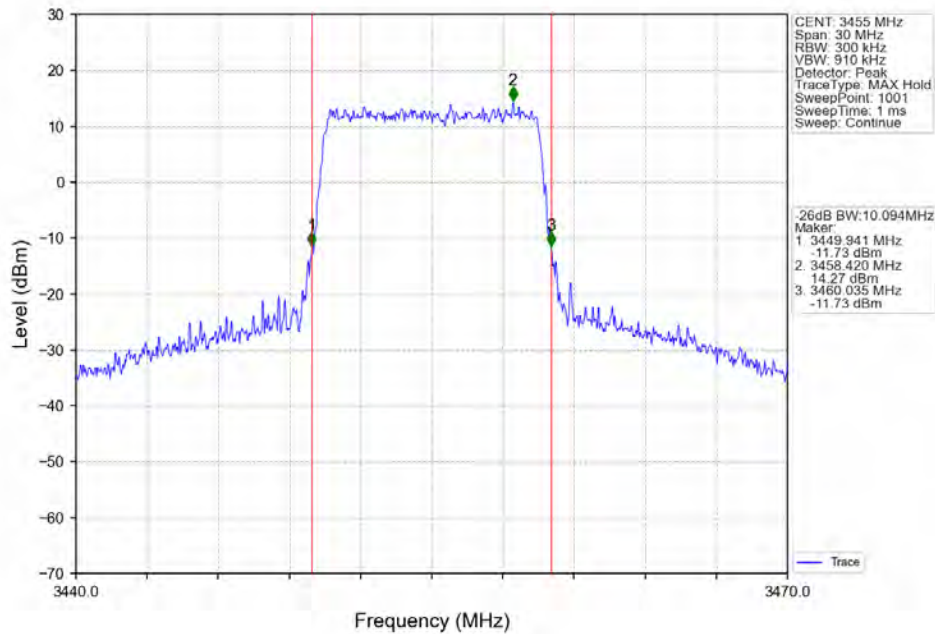
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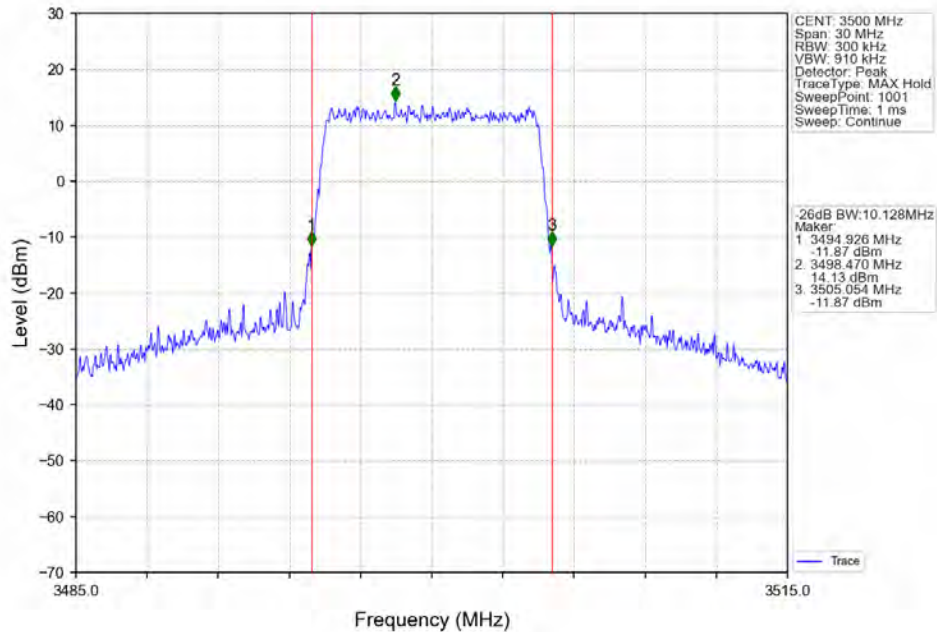
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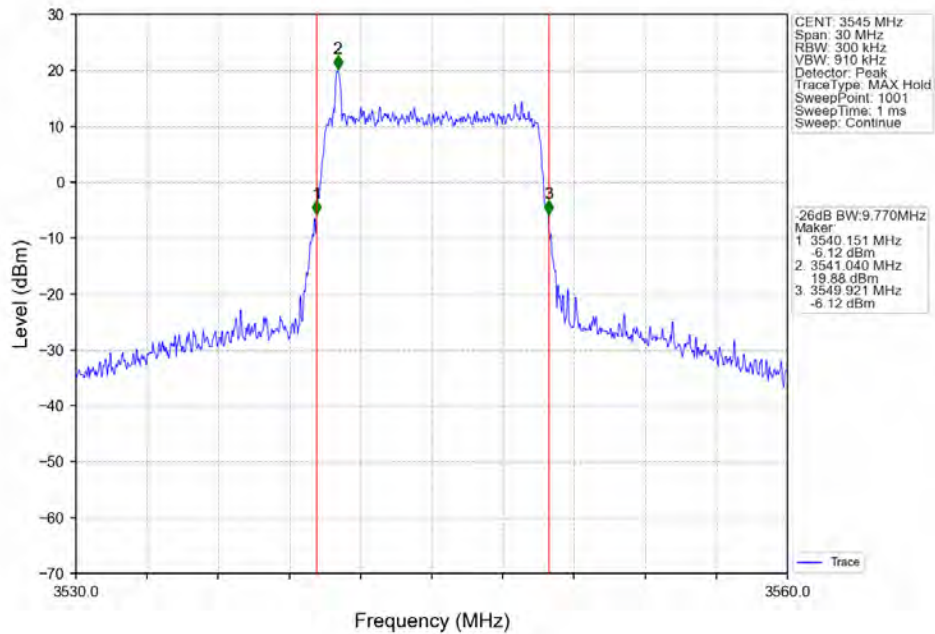
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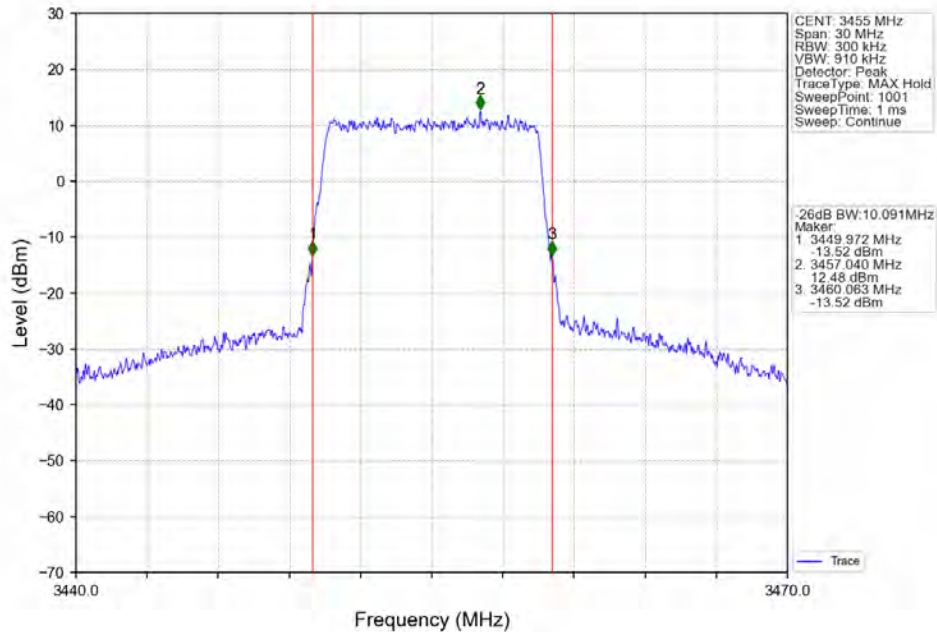
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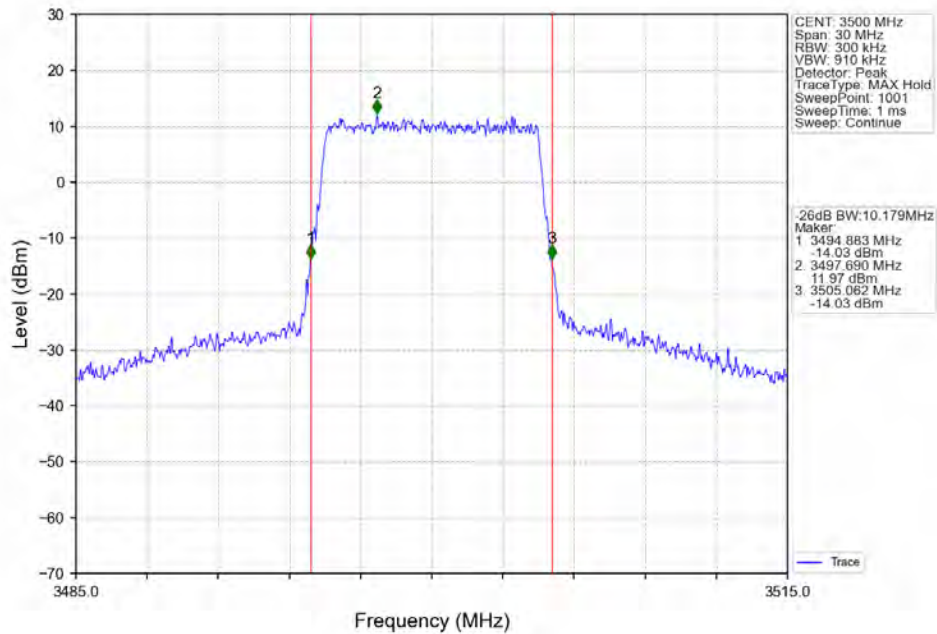
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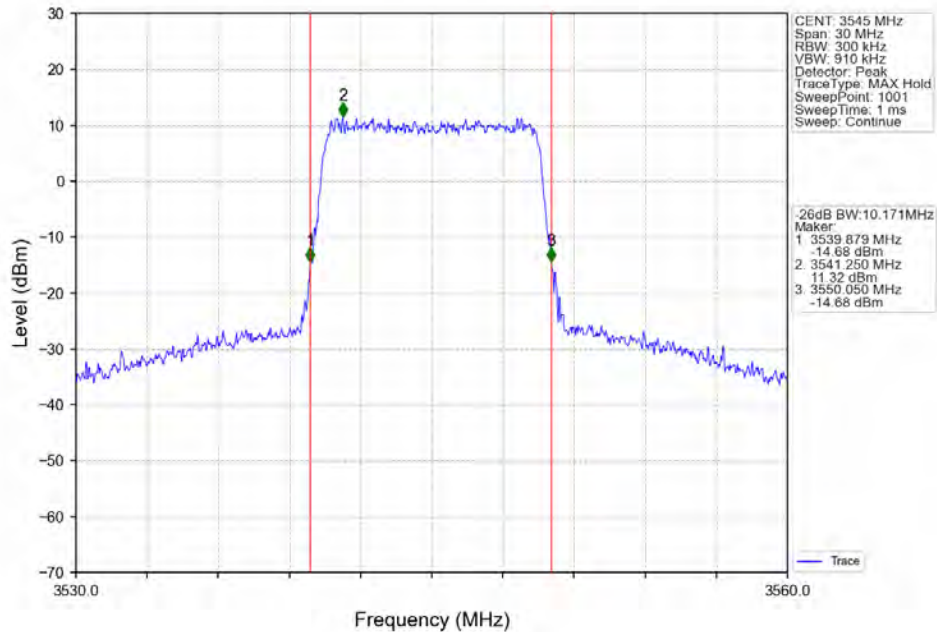
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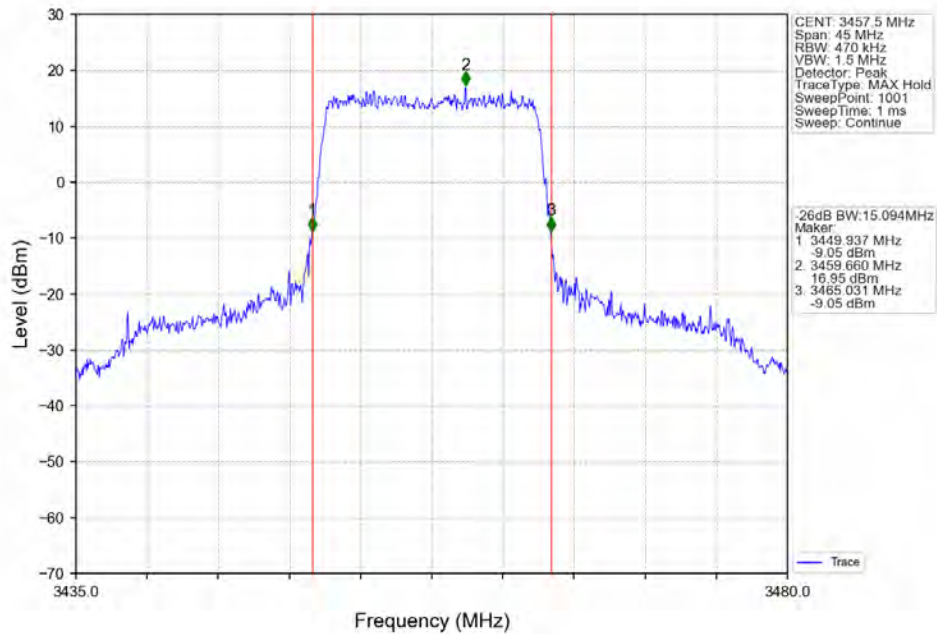
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Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_75_0_NTNV



Band42a_15MHz_QPSK_MCH_3500MHz_RB_75_0_NTNV



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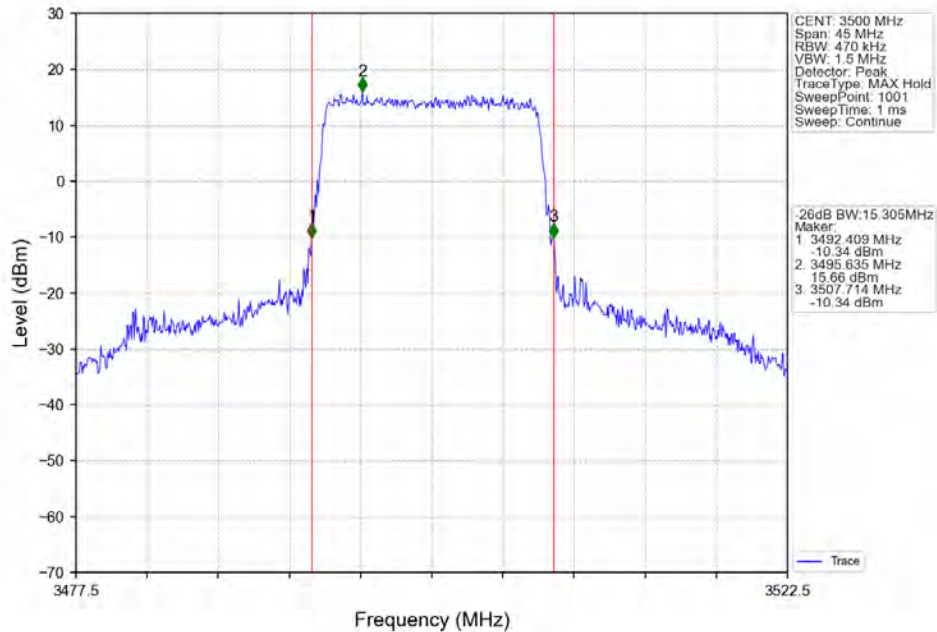
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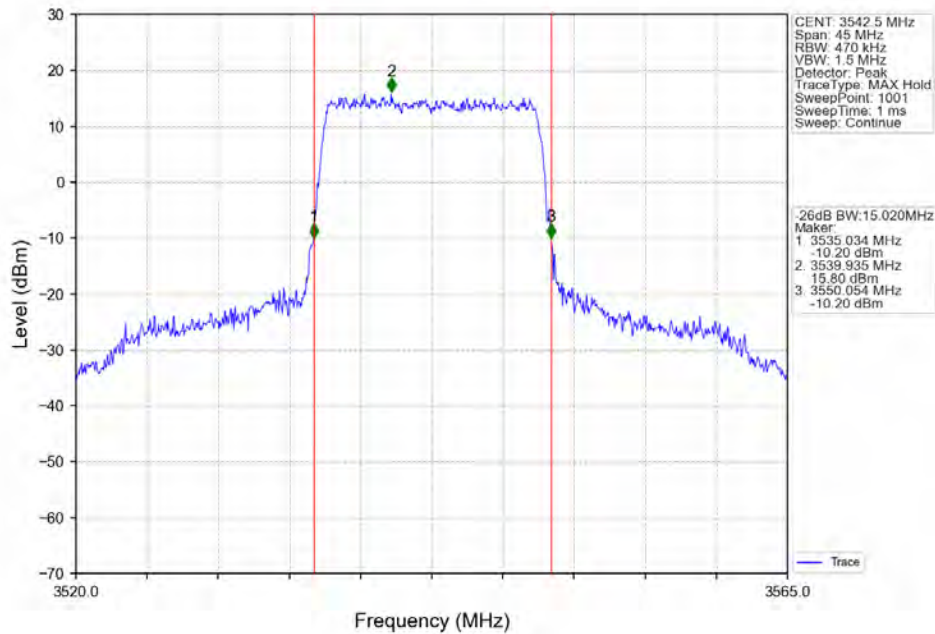
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Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



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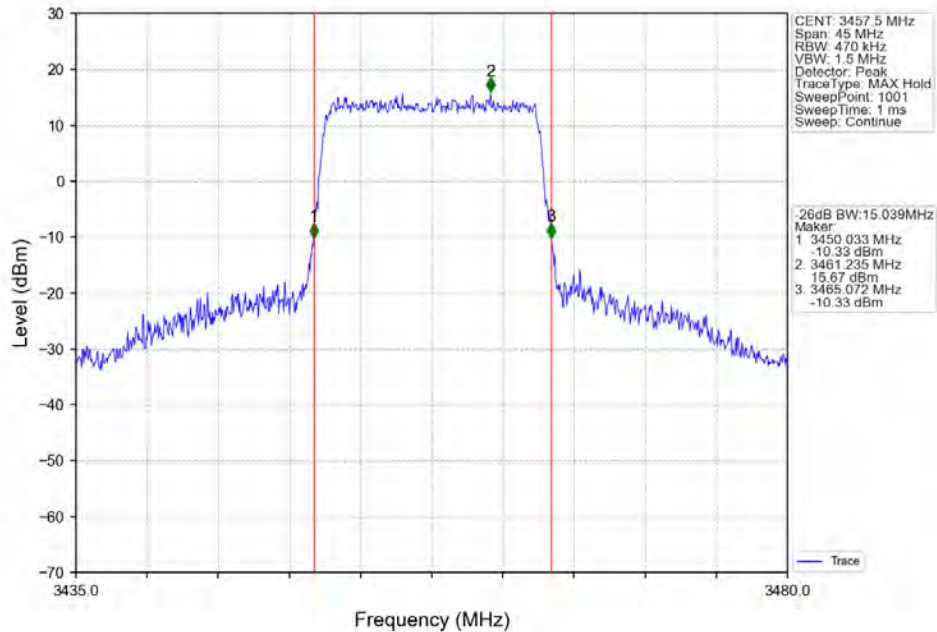
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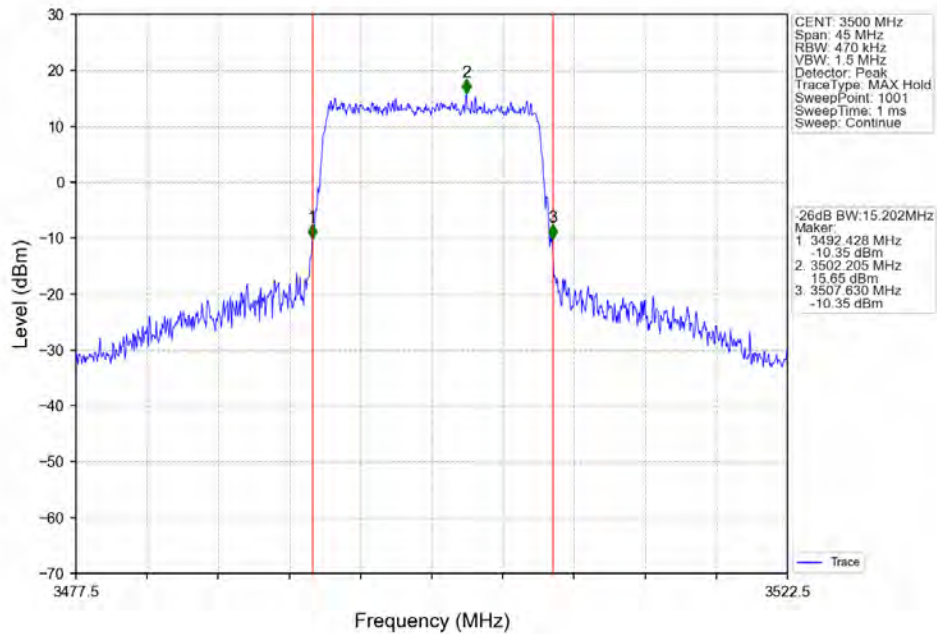
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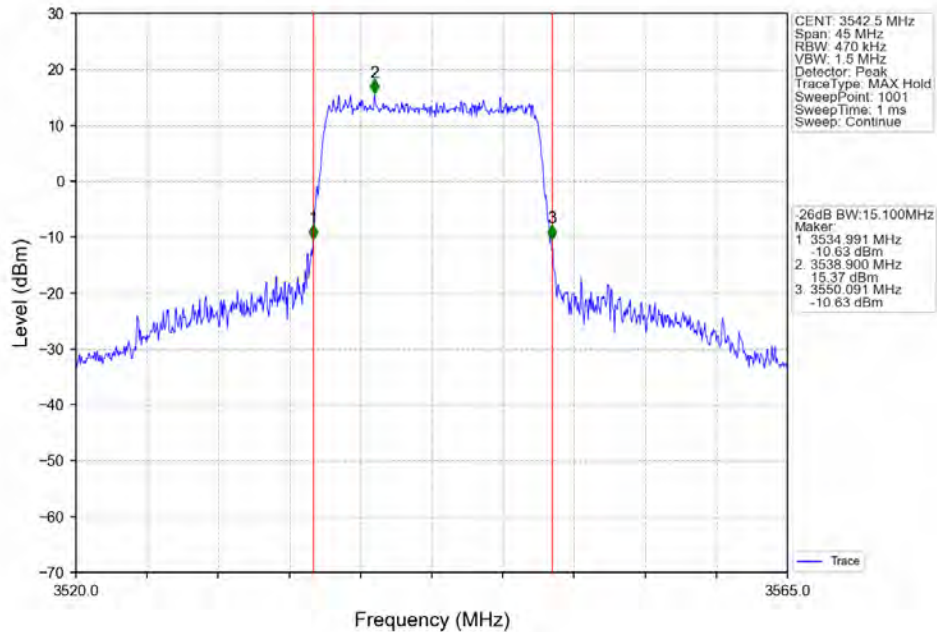
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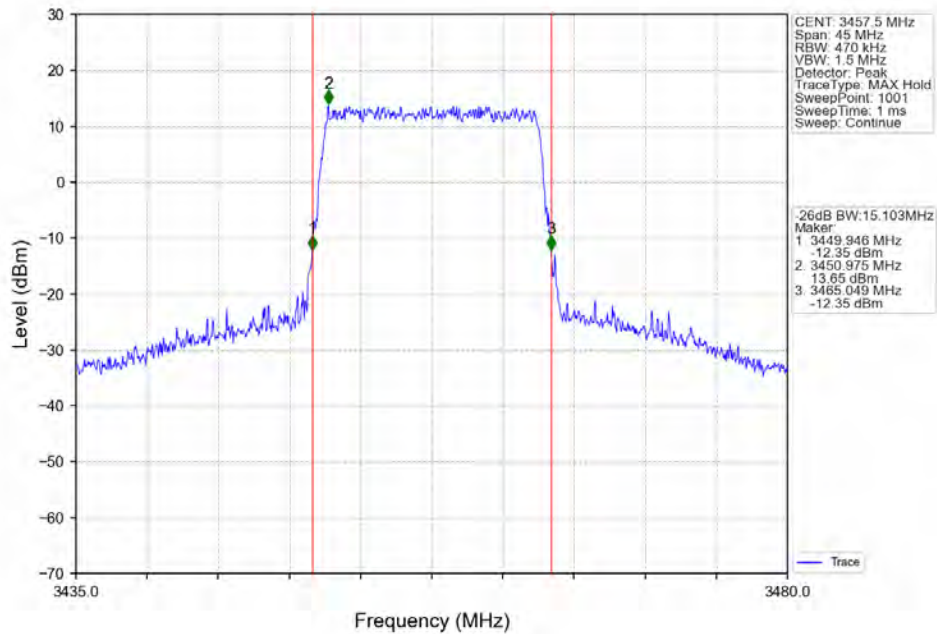
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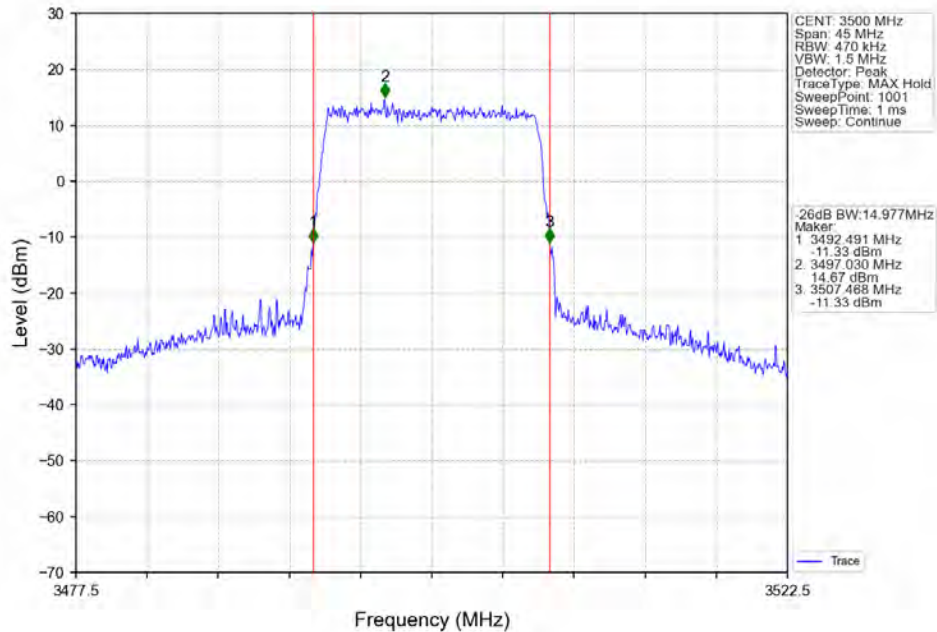
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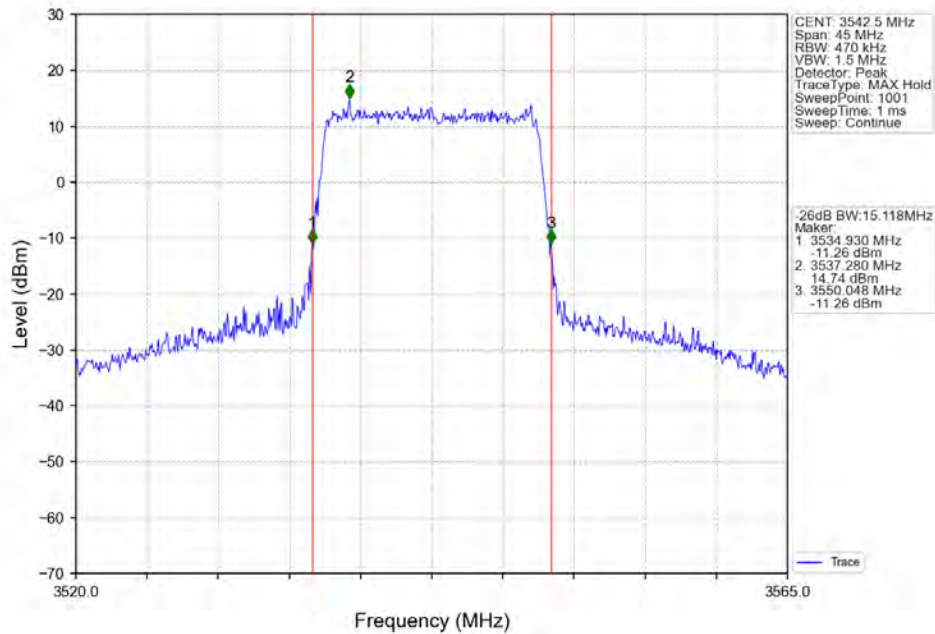
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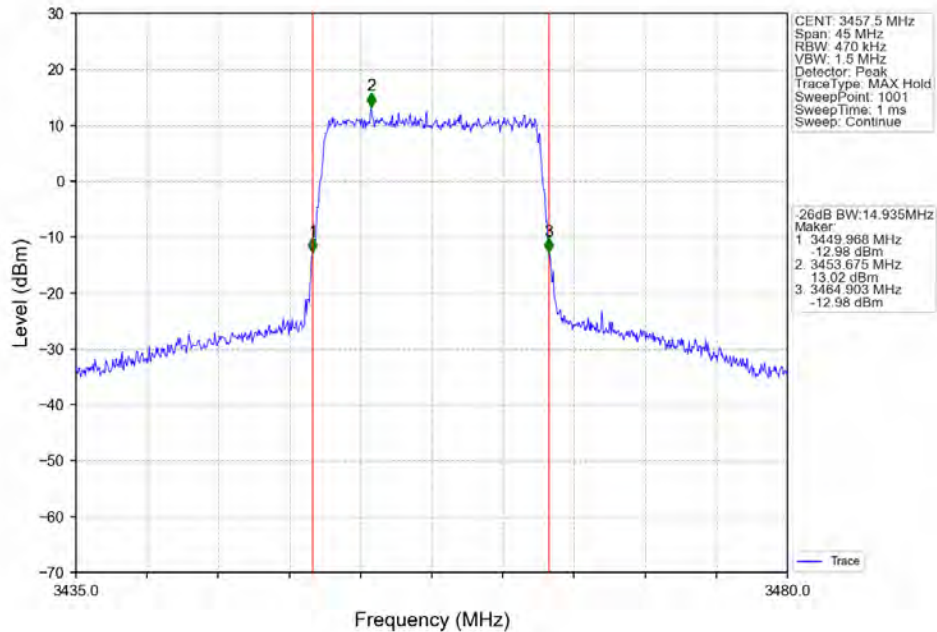
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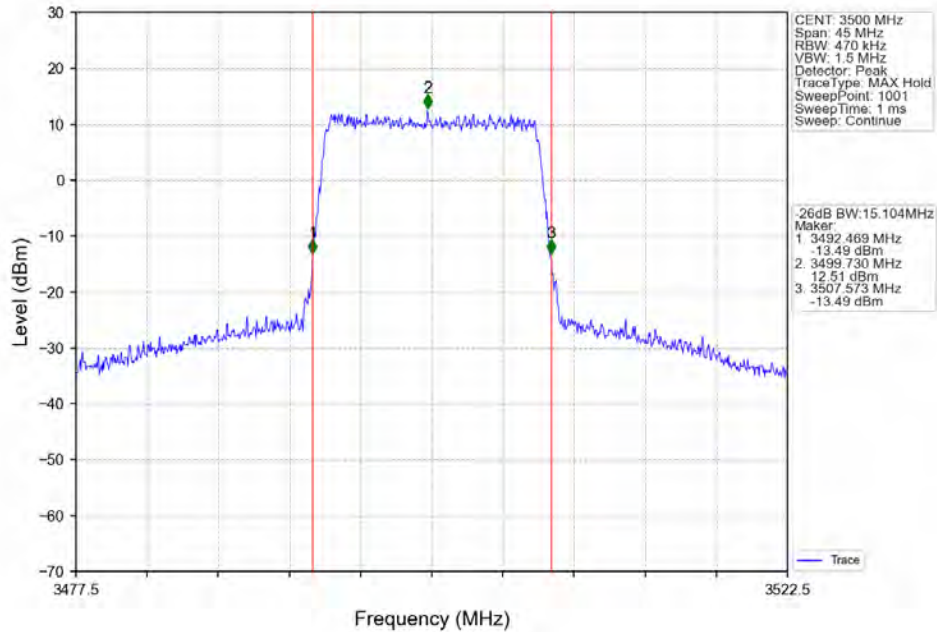
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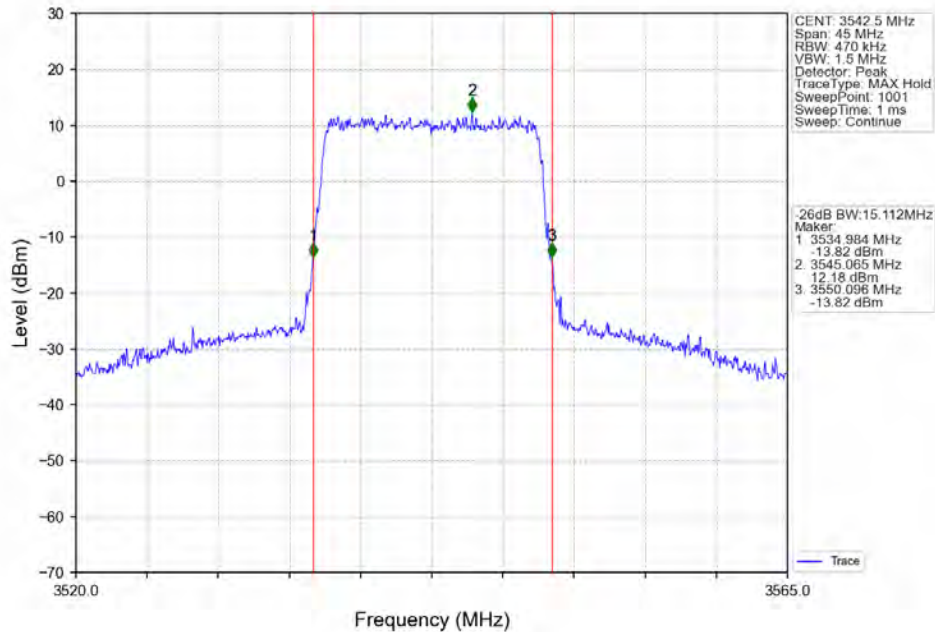
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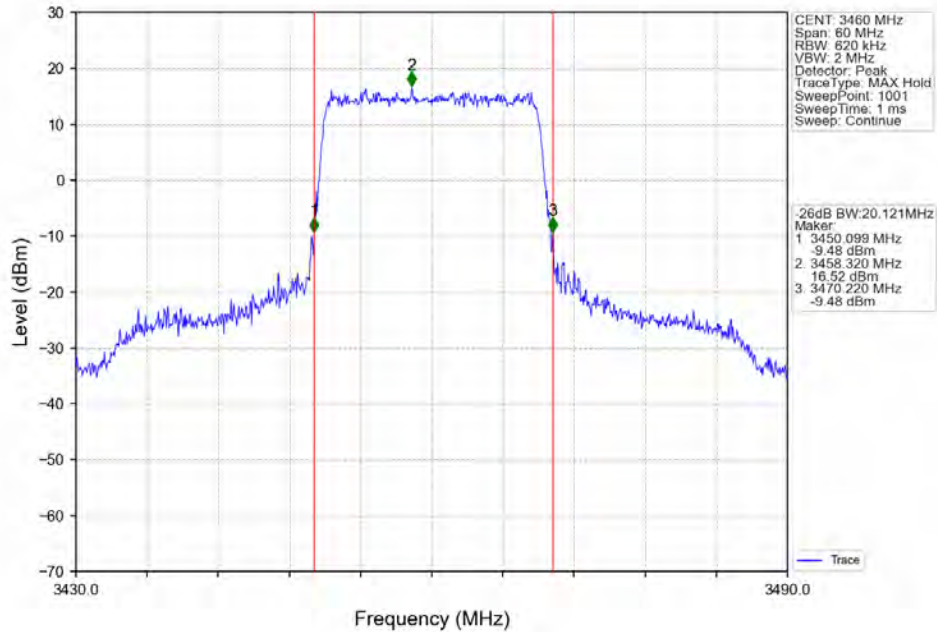
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Band42a_20MHz_QPSK_LCH_3460MHz_RB_100_0_NTNV



Band42a_20MHz_QPSK_MCH_3500MHz_RB_100_0_NTNV



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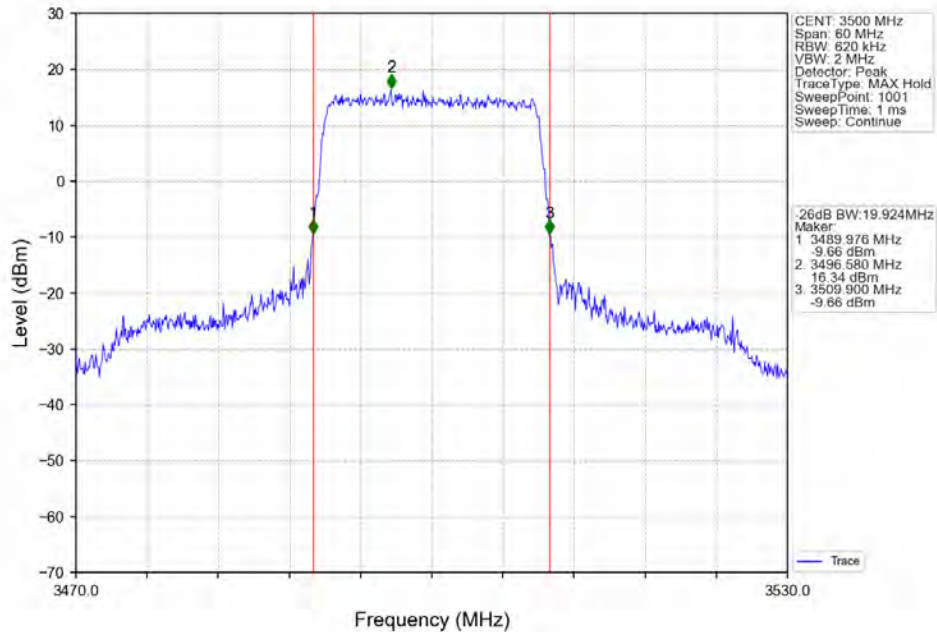
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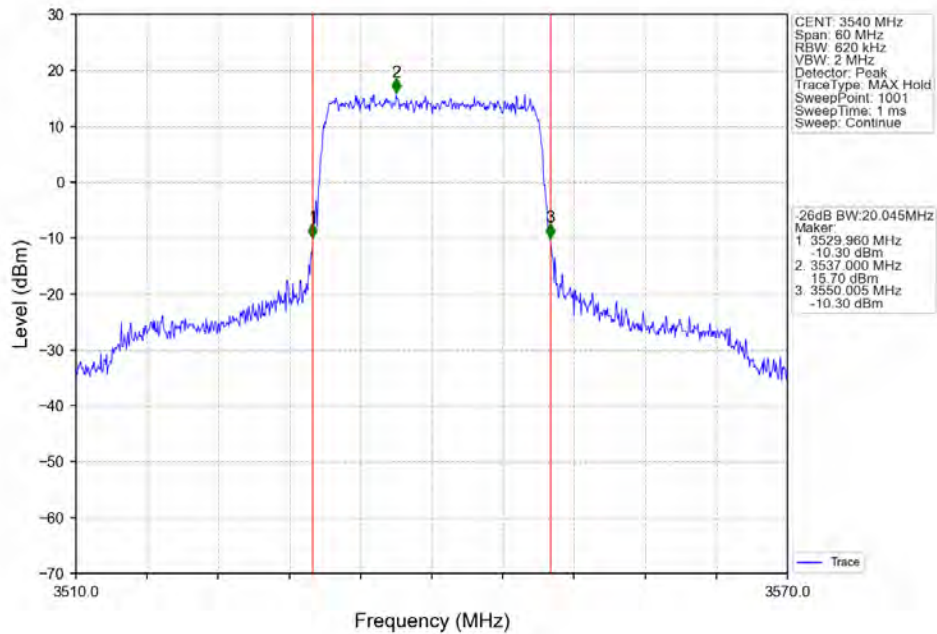
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Band42a_20MHz_16QAM_LCH_3460MHz_RB_100_0_NTNV



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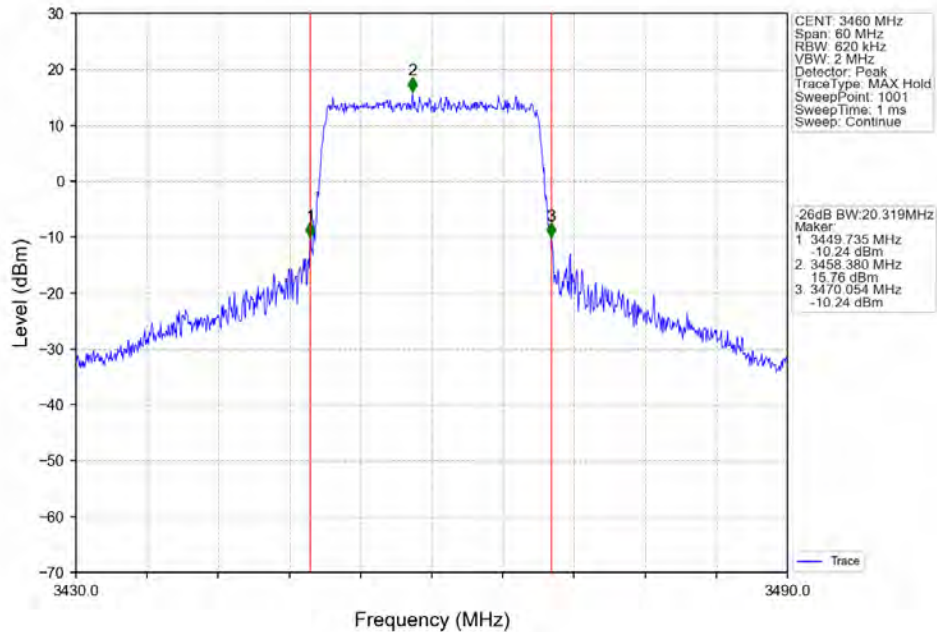
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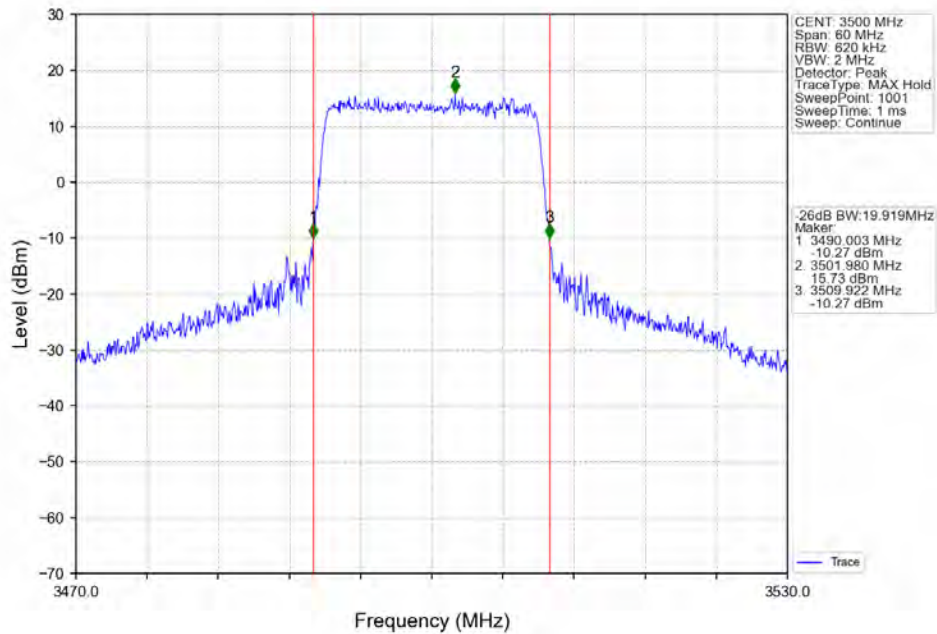
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Band42a_20MHz_16QAM_HCH_3540MHz_RB_100_0_NTNV



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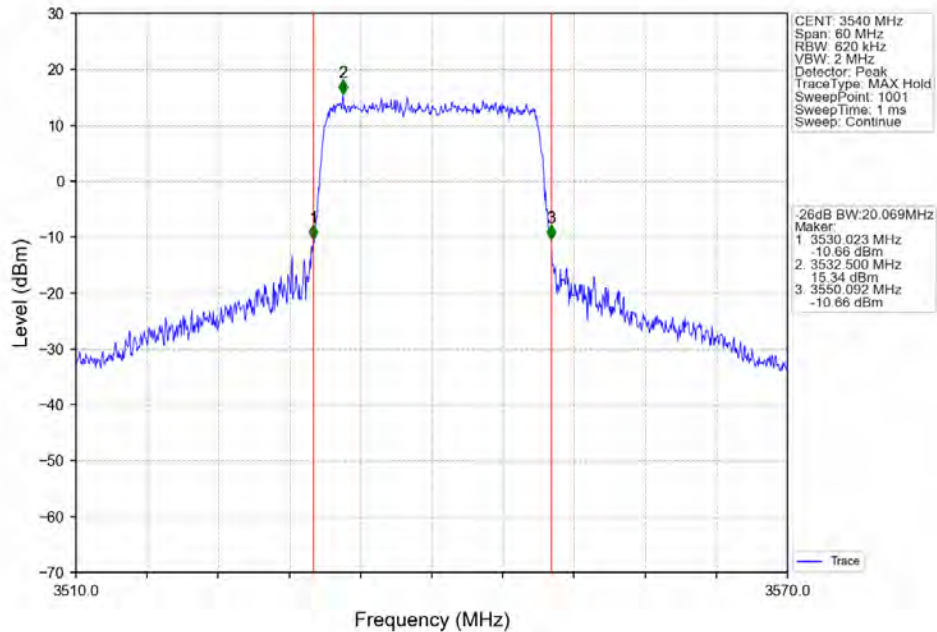
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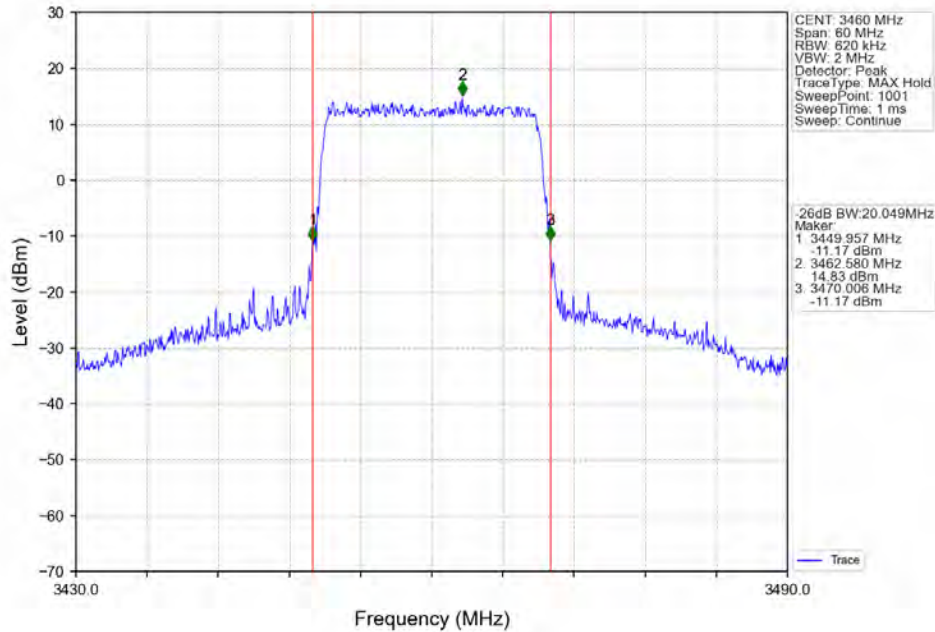
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Band42a 20MHz 64QAM LCH 3460MHz RB 100 0 NTN



Band42a 20MHz 64QAM MCH 3500MHz RB 100 0 NTN



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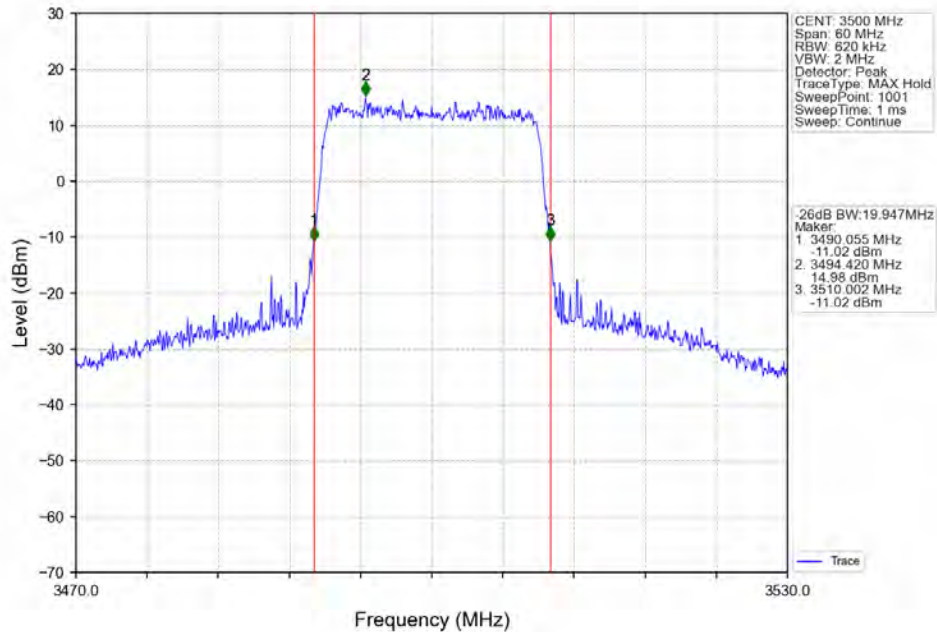
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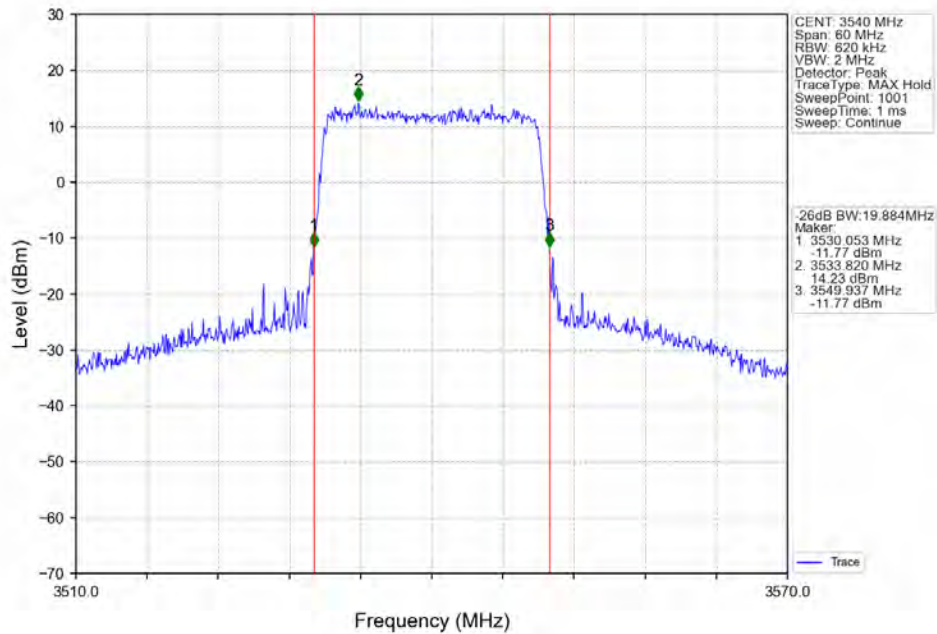
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Band42a 20MHz 256QAM LCH 3460MHz RB 100 0 NTNV



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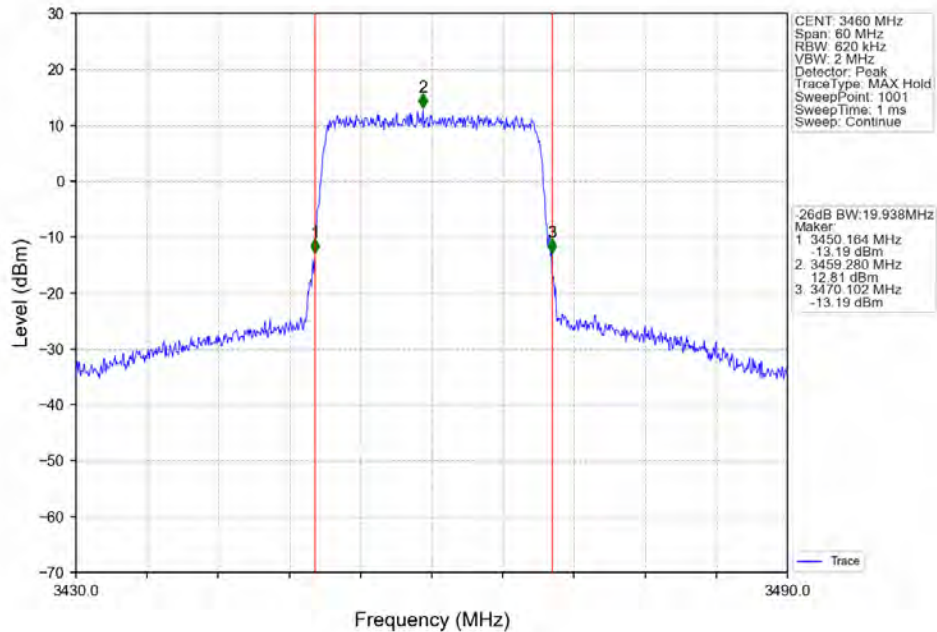
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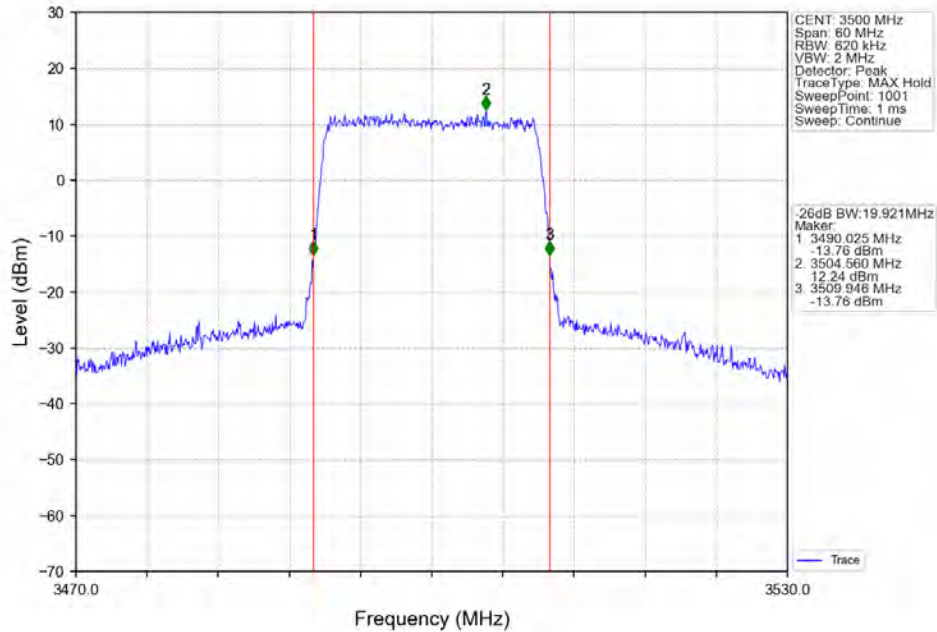
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Band42a_20MHz_256QAM_MCH_3500MHz_RB_100_0_NTNV



Band42a_20MHz_256QAM_HCH_3540MHz_RB_100_0_NTNV



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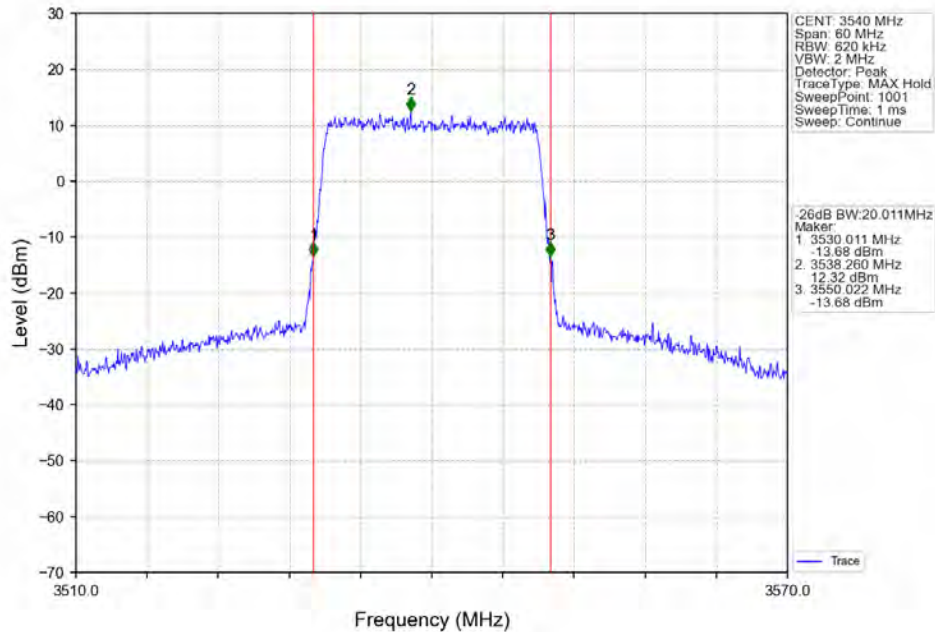
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5. Peak-Average Ratio

5.1 B42a_5MHz

5.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3452.5	25	0	8.74	<=13	Pass
	3500	25	0	8.84	<=13	Pass
	3547.5	25	0	8.86	<=13	Pass
16QAM	3452.5	25	0	9.80	<=13	Pass
	3500	25	0	9.82	<=13	Pass
	3547.5	25	0	9.84	<=13	Pass
64QAM	3452.5	25	0	9.78	<=13	Pass
	3500	25	0	9.78	<=13	Pass
	3547.5	25	0	9.82	<=13	Pass
256QAM	3452.5	25	0	10.44	<=13	Pass
	3500	25	0	10.44	<=13	Pass
	3547.5	25	0	10.40	<=13	Pass



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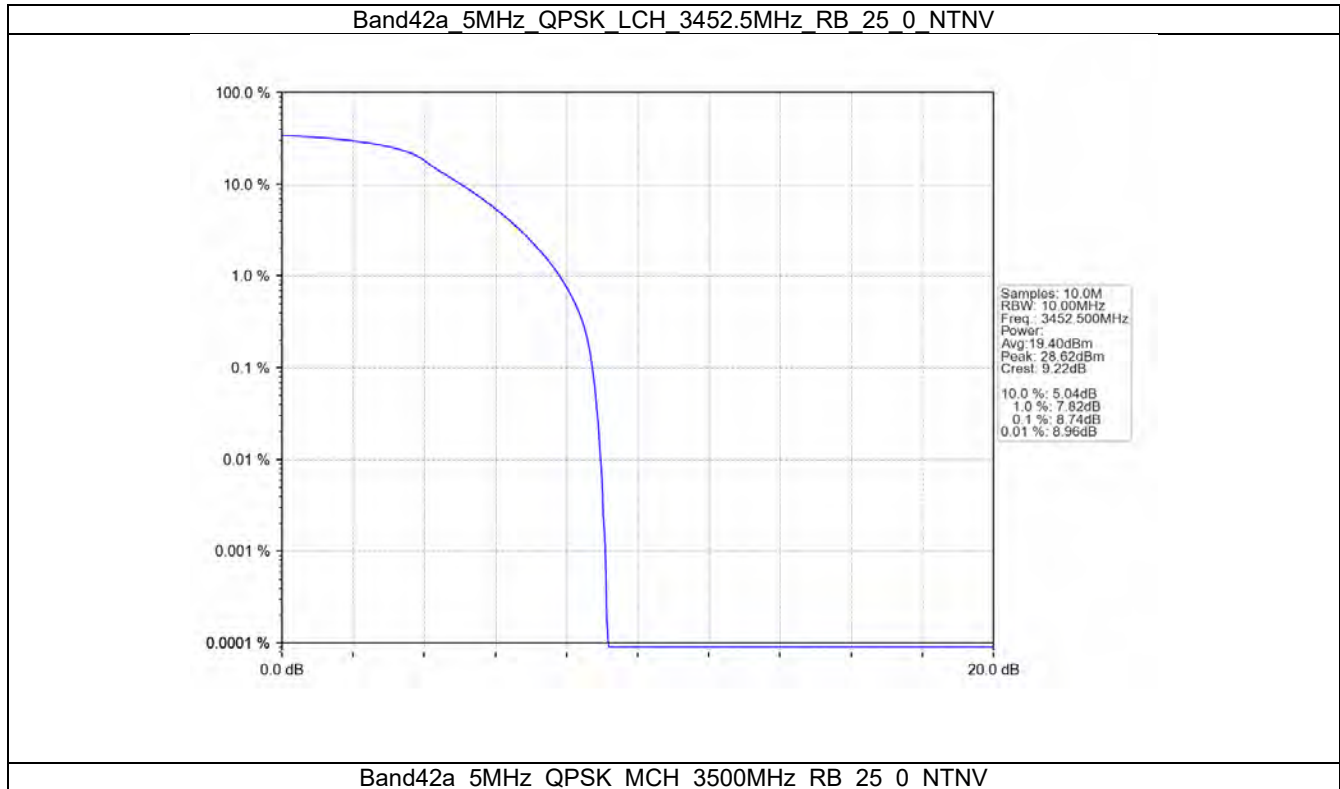
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5.1.2 Test Graph



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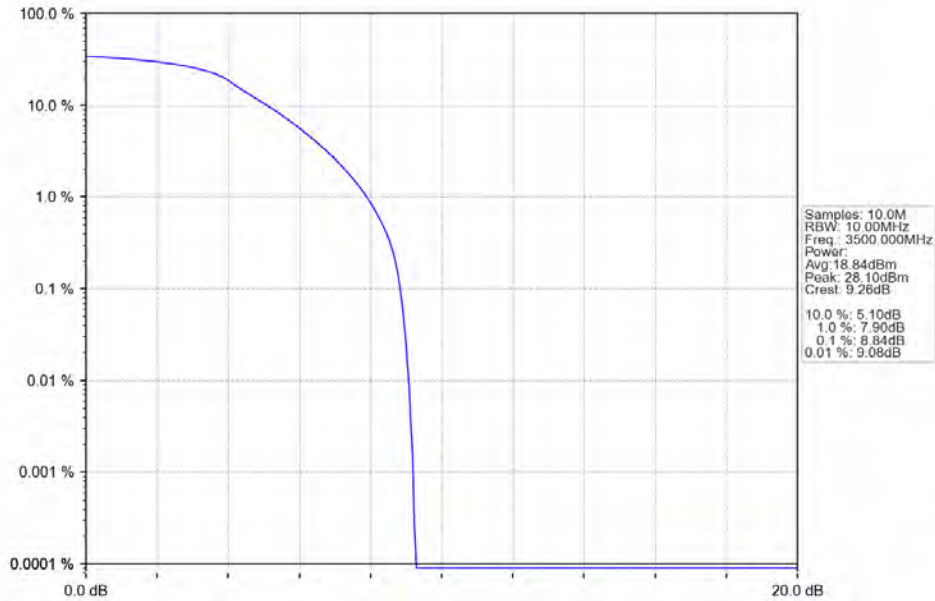
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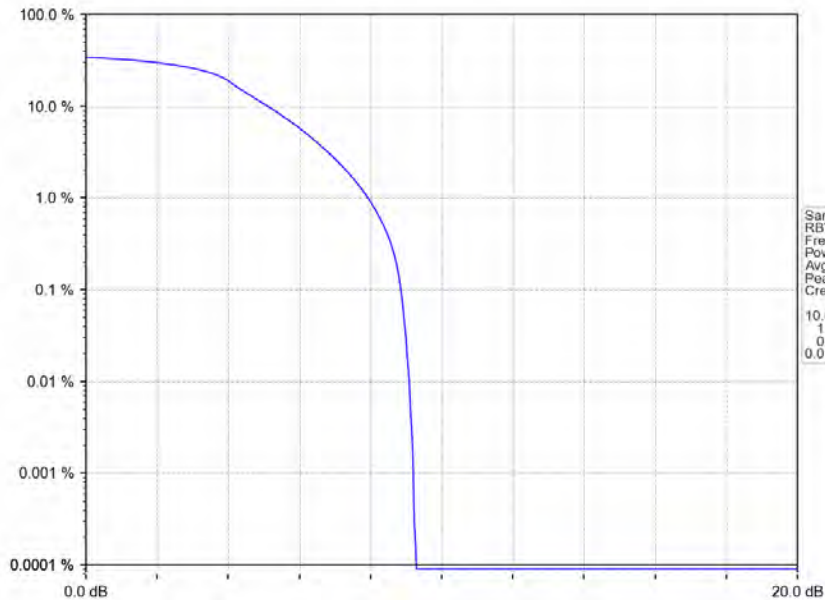
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Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_LCH_3452.5MHz_RB_25_0_NTNV



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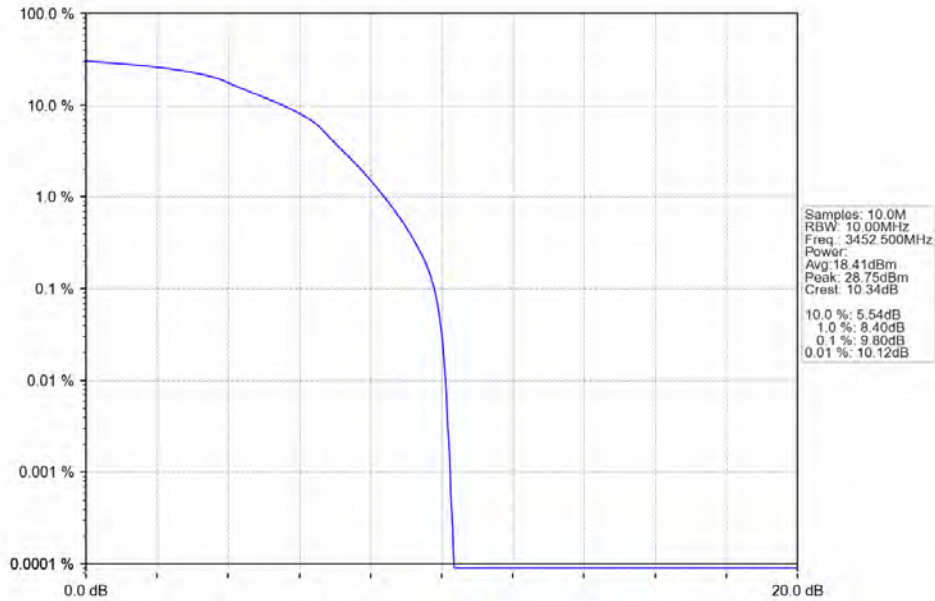
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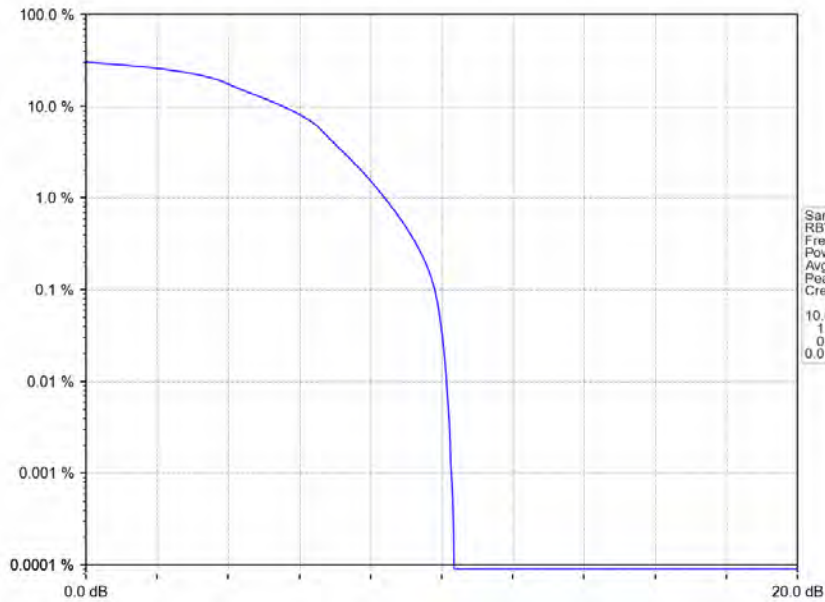
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Band42a_5MHz_16QAM_MCH_3500MHz_RB_25_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq: 3500.000MHz
Power:
Avg: 18.17dBm
Peak: 28.51dBm
Crest: 10.34dB
10.0 %: 5.54dB
1.0 %: 8.40dB
0.1 %: 9.82dB
0.01 %: 10.14dB

Band42a_5MHz_16QAM_HCH_3547.5MHz_RB_25_0_NTNV



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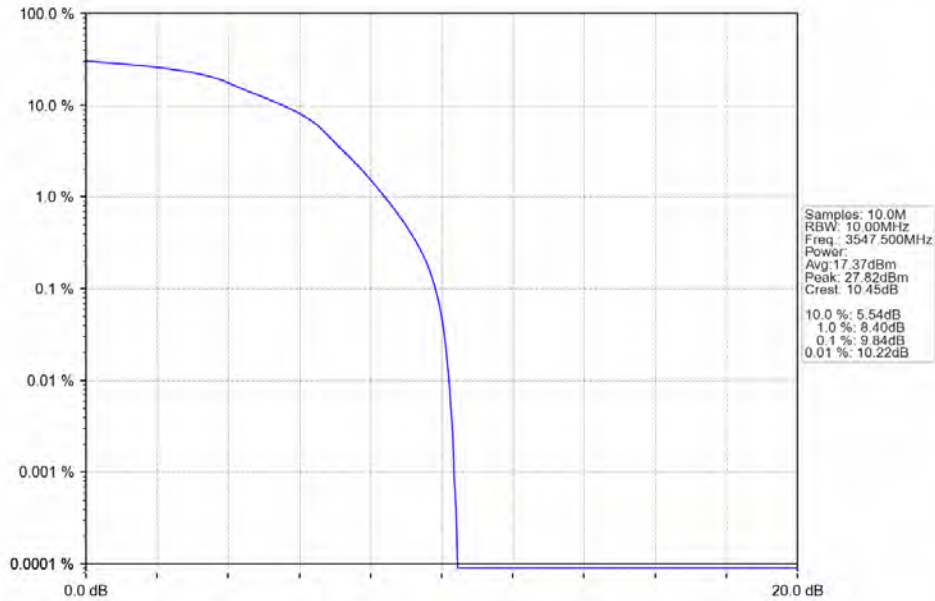
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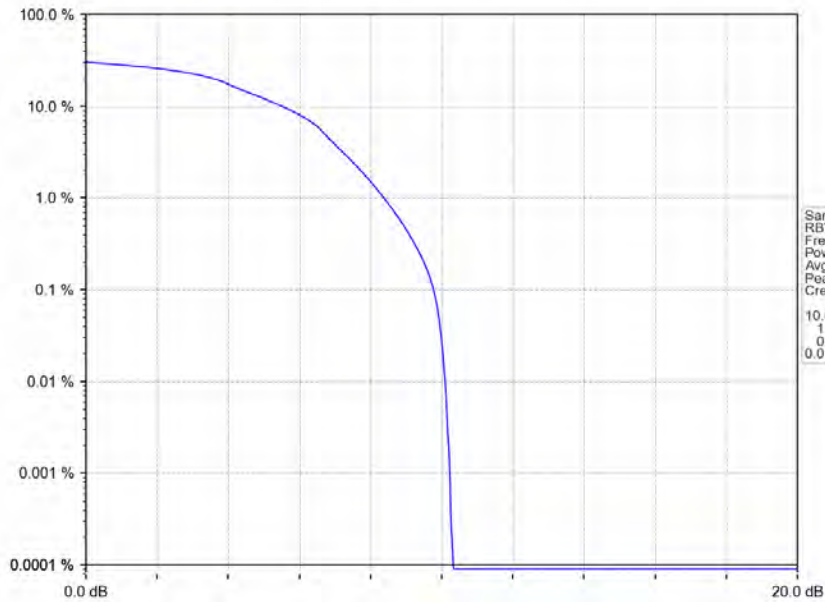
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Band42a_5MHz_64QAM_LCH_3452.5MHz_RB_25_0_NTNV



Band42a_5MHz_64QAM_MCH_3500MHz_RB_25_0_NTNV



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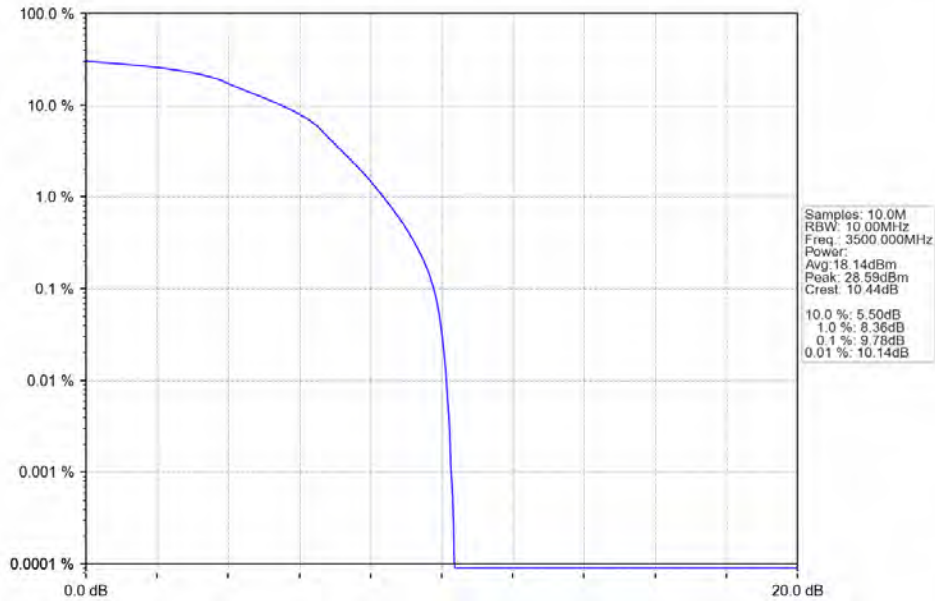
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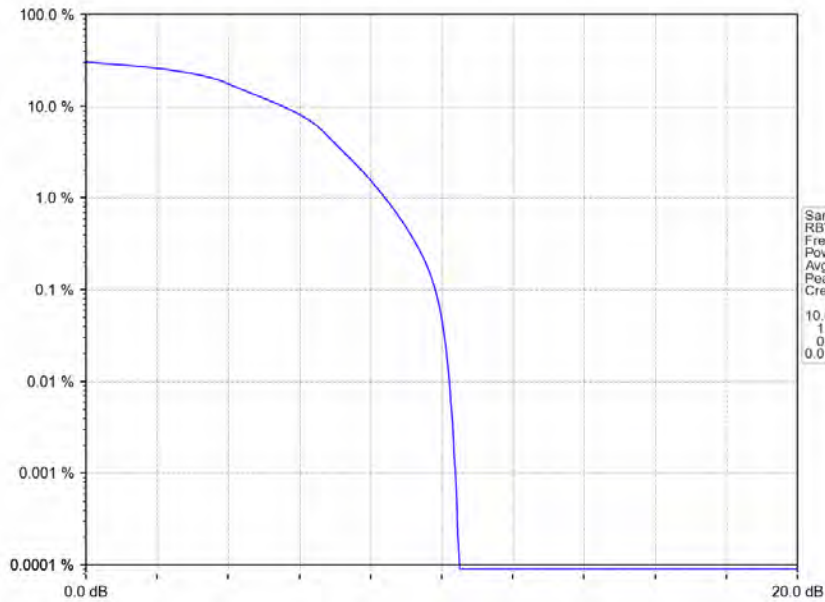
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Band42a_5MHz_256QAM_LCH_3452.5MHz_RB_25_0_NTNV



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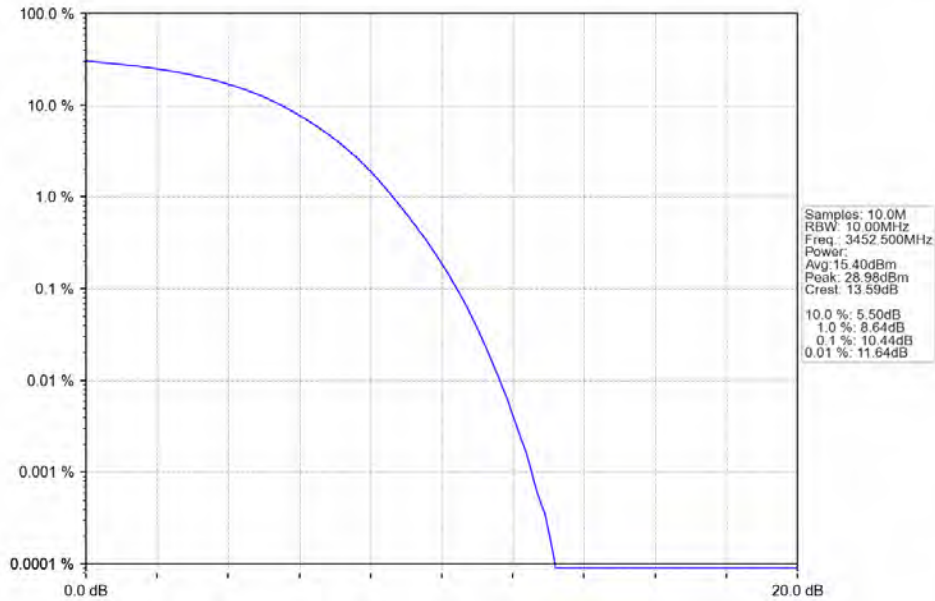
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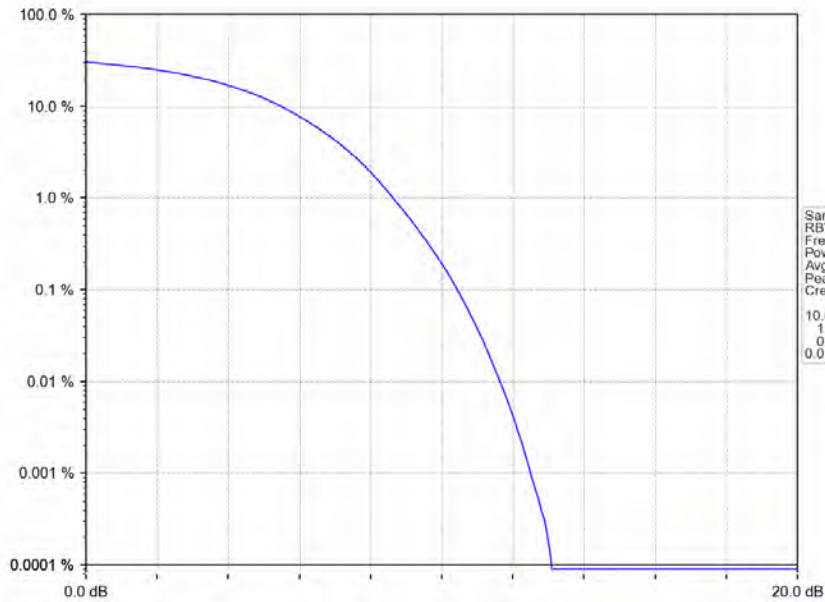
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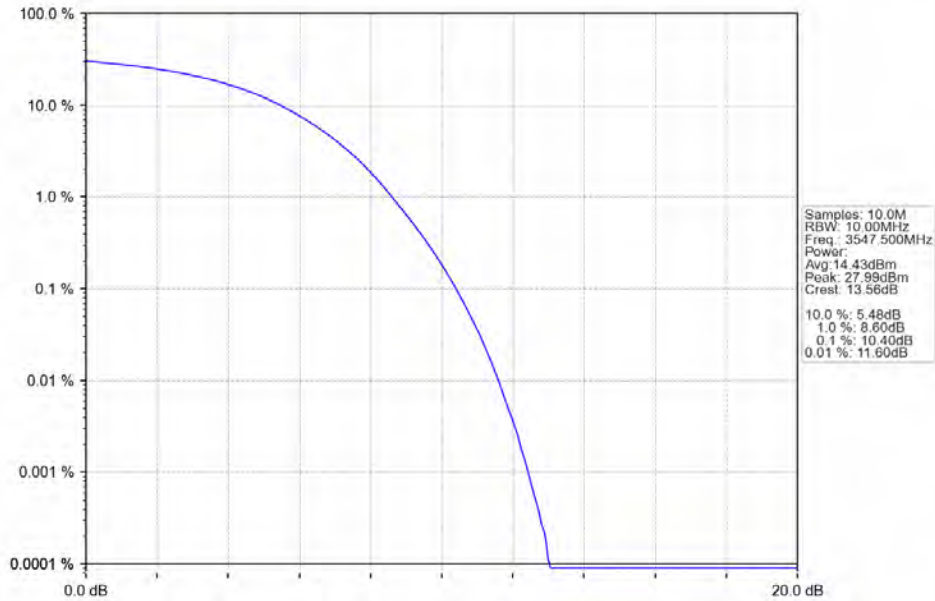
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5.2 B42a_10MHz

5.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3455	50	0	8.84	<=13	Pass
	3500	50	0	8.82	<=13	Pass
	3545	50	0	8.80	<=13	Pass
16QAM	3455	50	0	9.76	<=13	Pass
	3500	50	0	9.78	<=13	Pass
	3545	50	0	9.82	<=13	Pass
64QAM	3455	50	0	9.82	<=13	Pass
	3500	50	0	9.80	<=13	Pass
	3545	50	0	9.86	<=13	Pass
256QAM	3455	50	0	10.38	<=13	Pass
	3500	50	0	10.34	<=13	Pass
	3545	50	0	10.40	<=13	Pass



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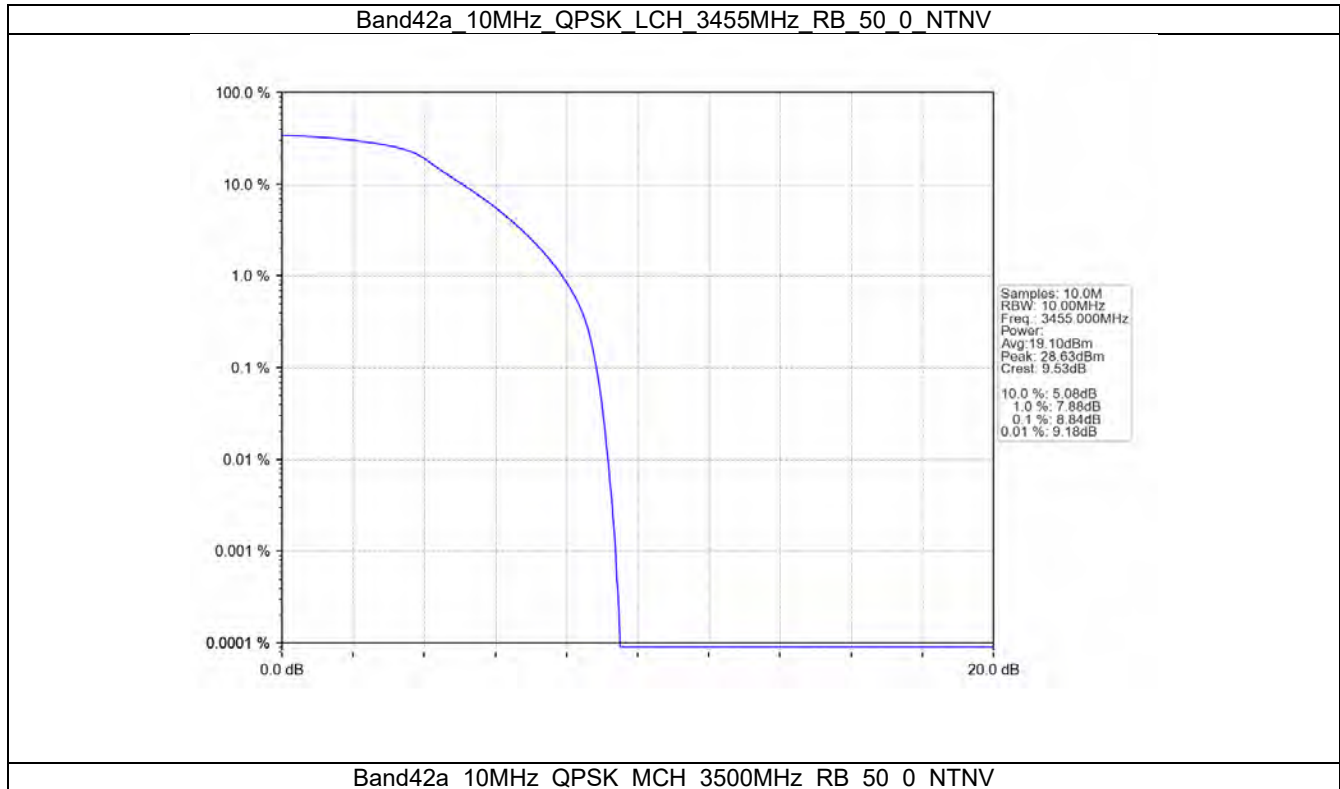
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5.2.2 Test Graph



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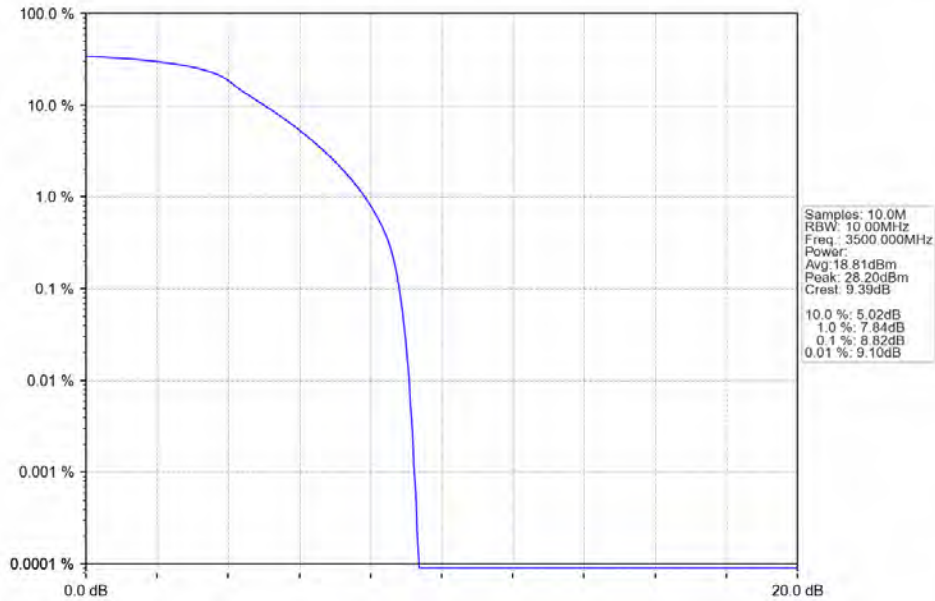
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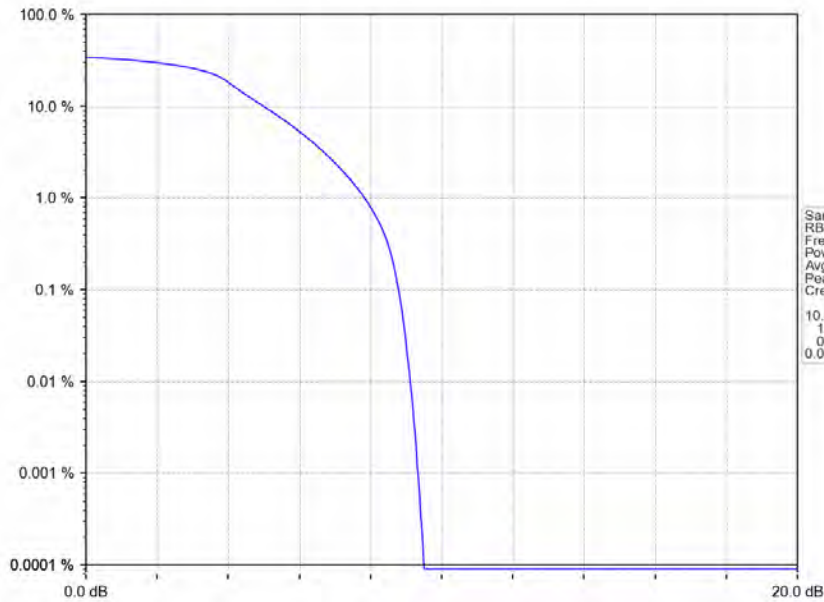
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Band42a_10MHz_16QAM_LCH_3545MHz_RB_50_0_NTNV



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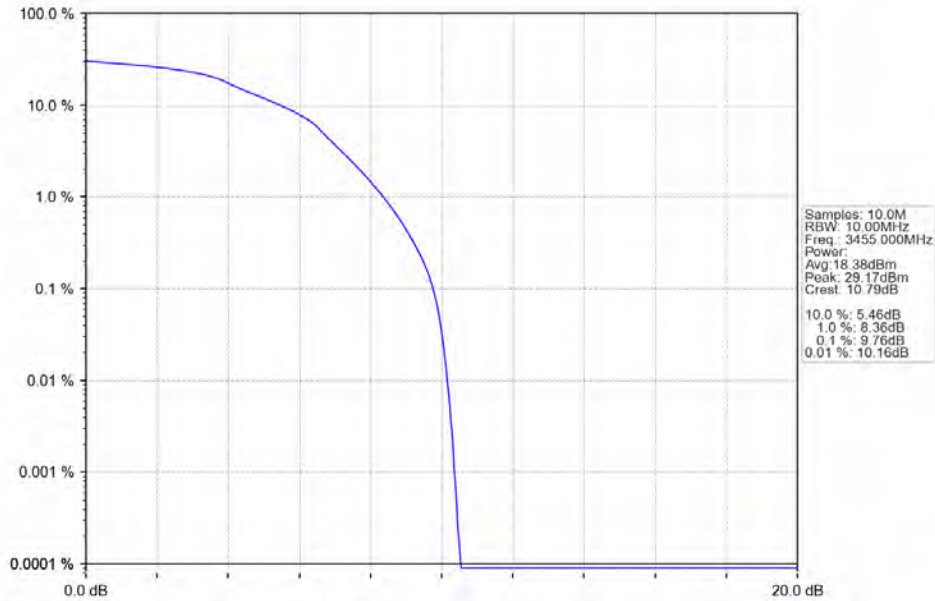
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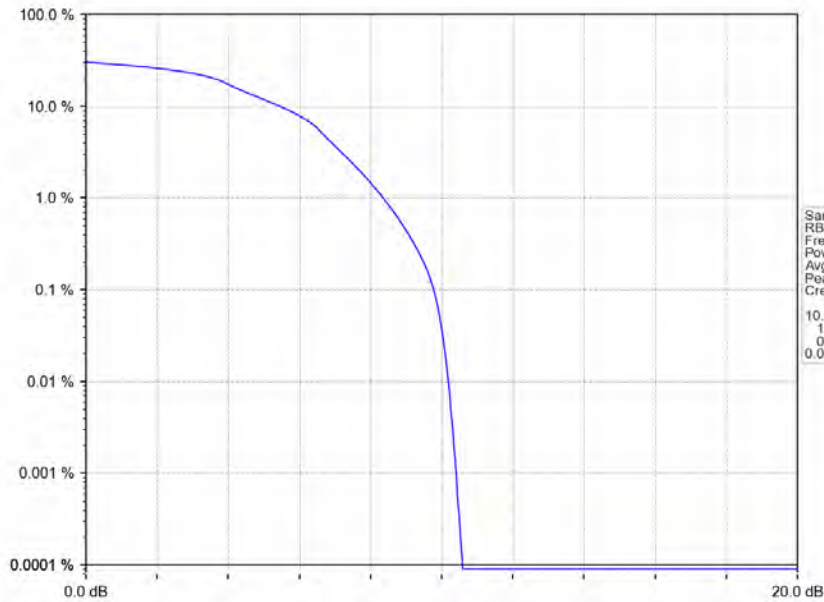
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Band42a_10MHz_16QAM_HCH_3545MHz_RB_50_0_NTNV



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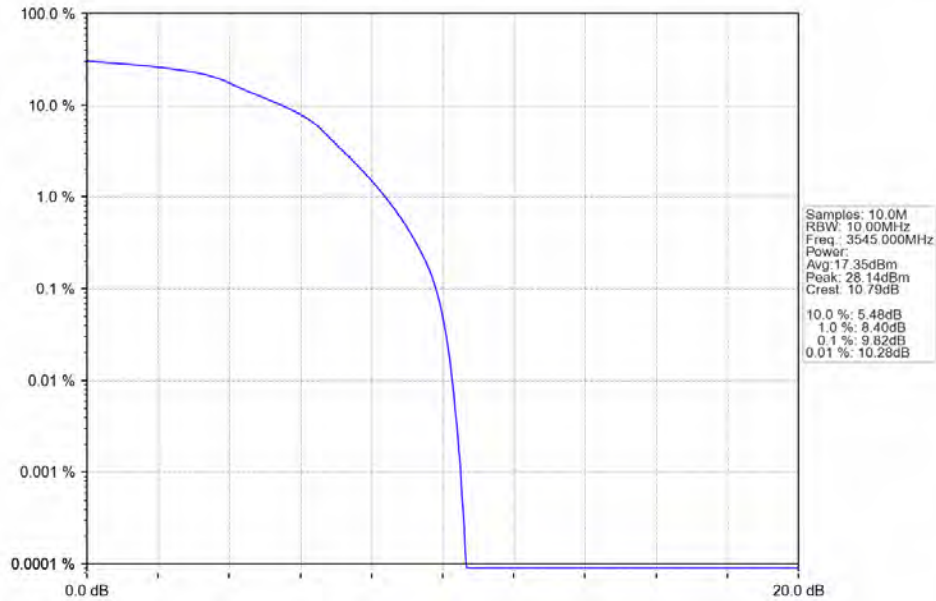
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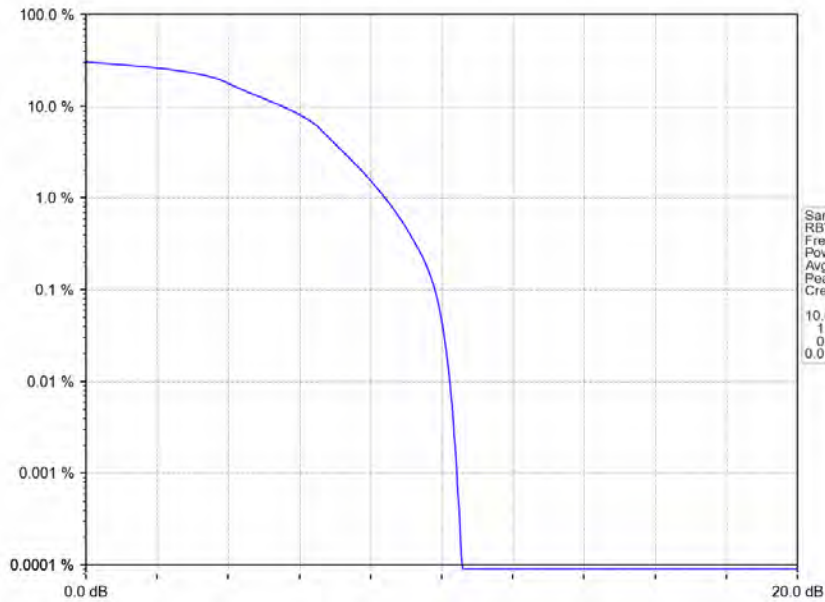
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Band42a_10MHz_64QAM_MCH_3500MHz_RB_50_0_NTNV



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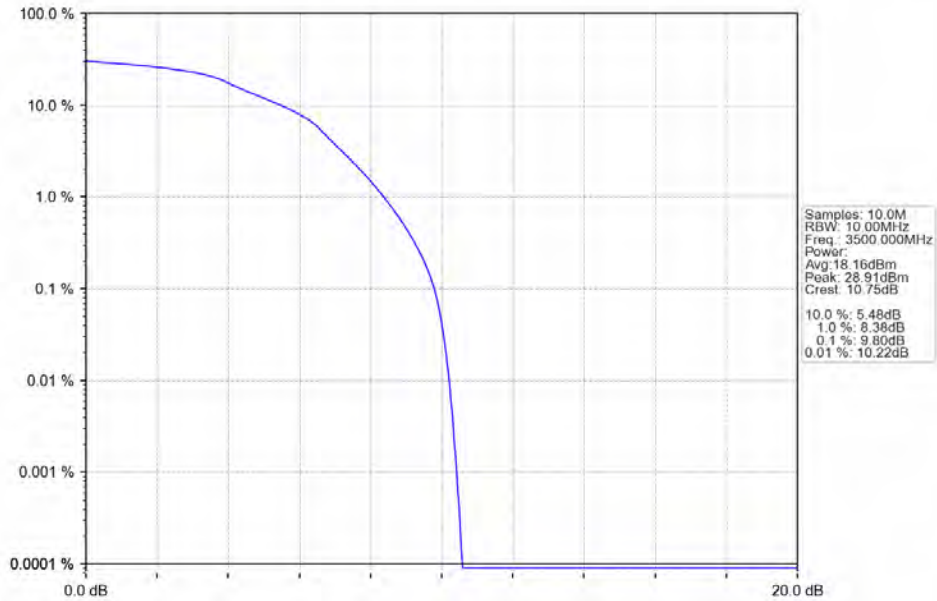
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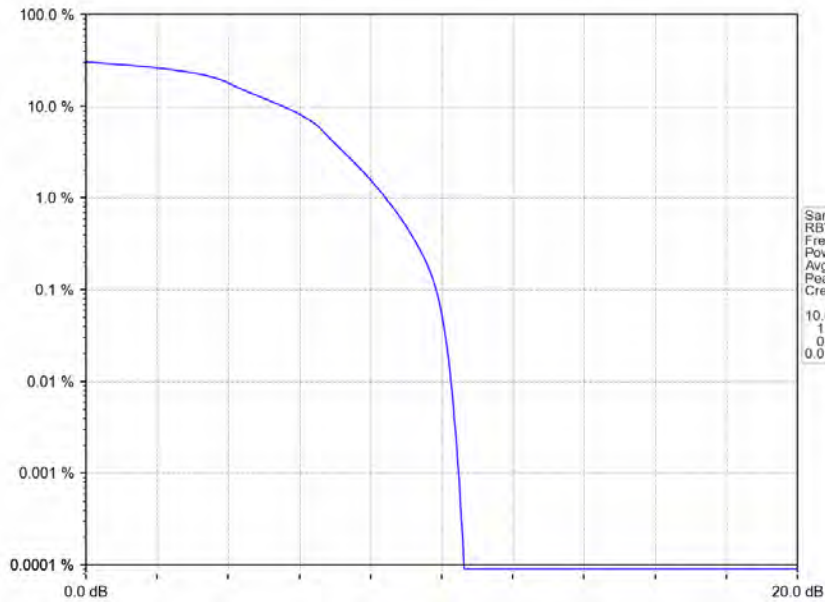
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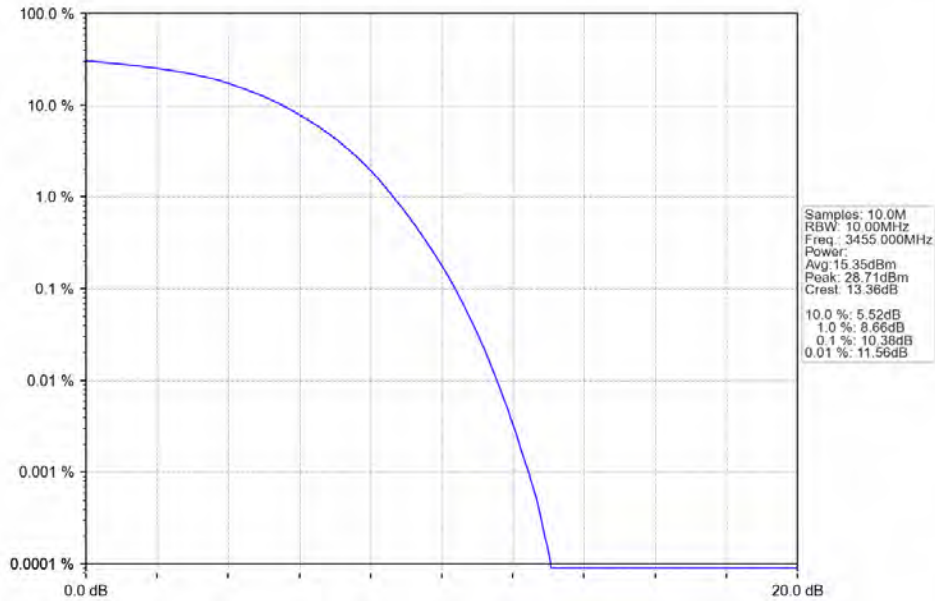
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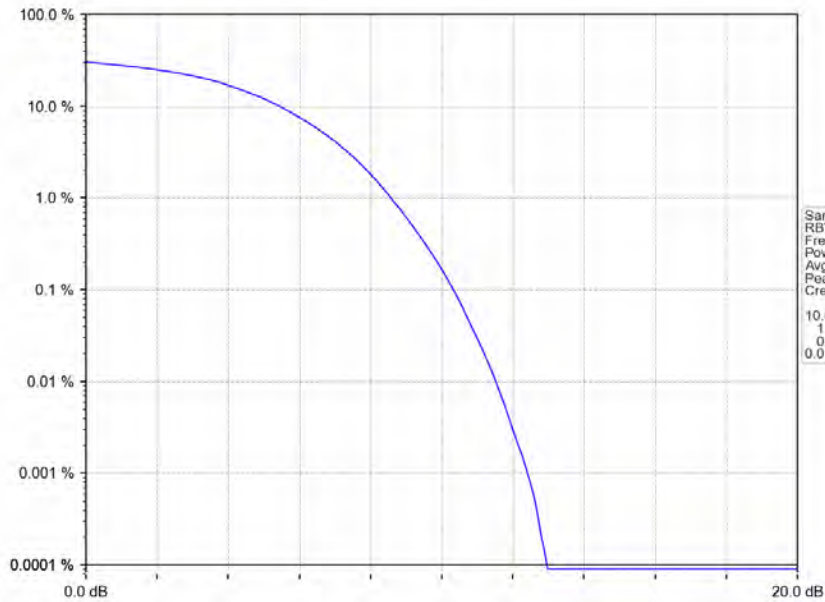
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Band42a 10MHz 256QAM MCH 3500MHz RB 50 0 NTN



Band42a 10MHz 256QAM HCH 3545MHz RB 50 0 NTN



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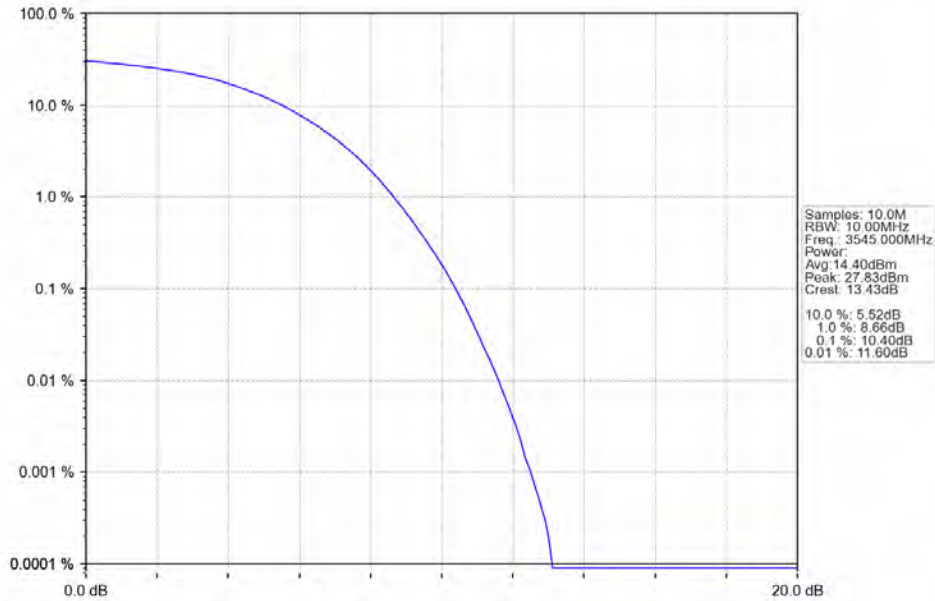
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5.3 B42a_15MHz

5.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3457.5	75	0	8.66	<=13	Pass
	3500	75	0	8.72	<=13	Pass
	3542.5	75	0	8.76	<=13	Pass
16QAM	3457.5	75	0	9.68	<=13	Pass
	3500	75	0	9.74	<=13	Pass
	3542.5	75	0	9.78	<=13	Pass
64QAM	3457.5	75	0	9.68	<=13	Pass
	3500	75	0	9.76	<=13	Pass
	3542.5	75	0	9.70	<=13	Pass
256QAM	3457.5	75	0	10.14	<=13	Pass
	3500	75	0	10.14	<=13	Pass
	3542.5	75	0	10.18	<=13	Pass



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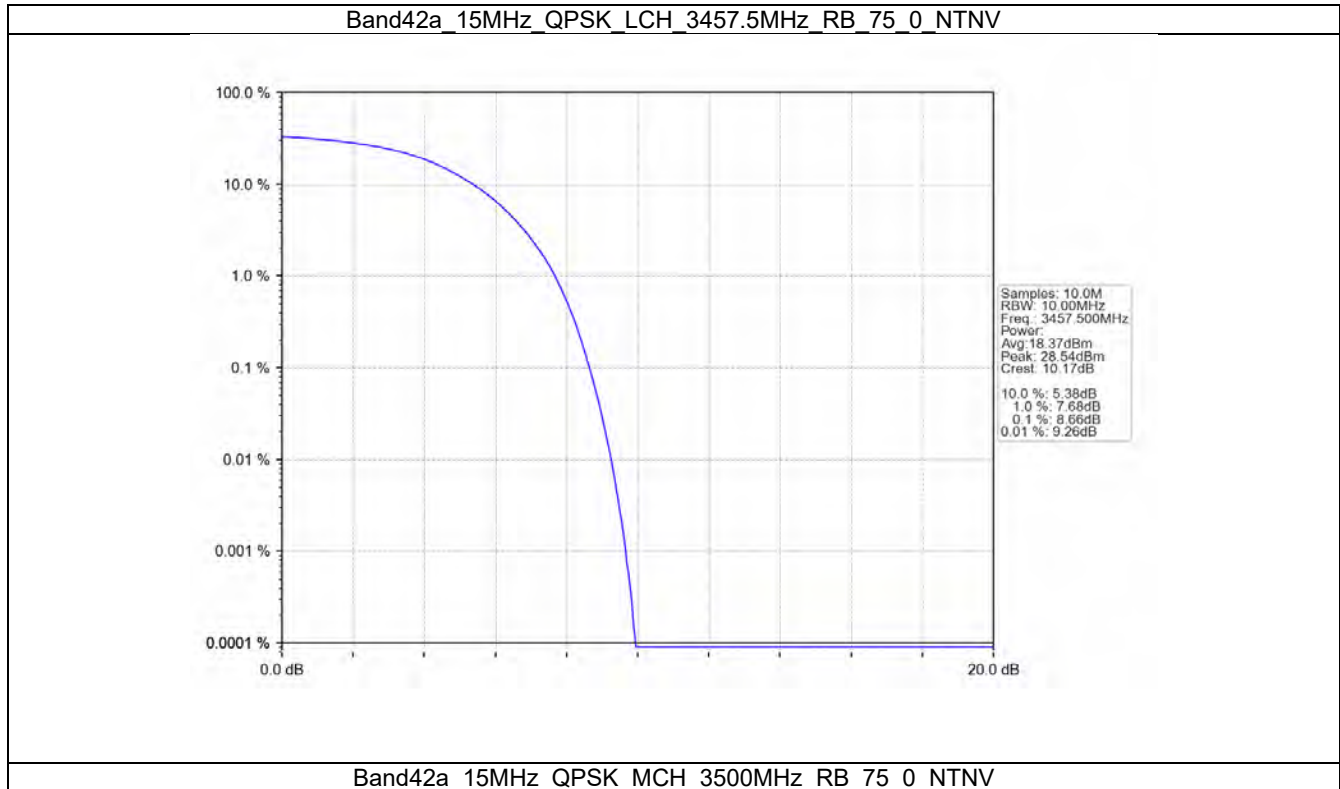
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5.3.2 Test Graph



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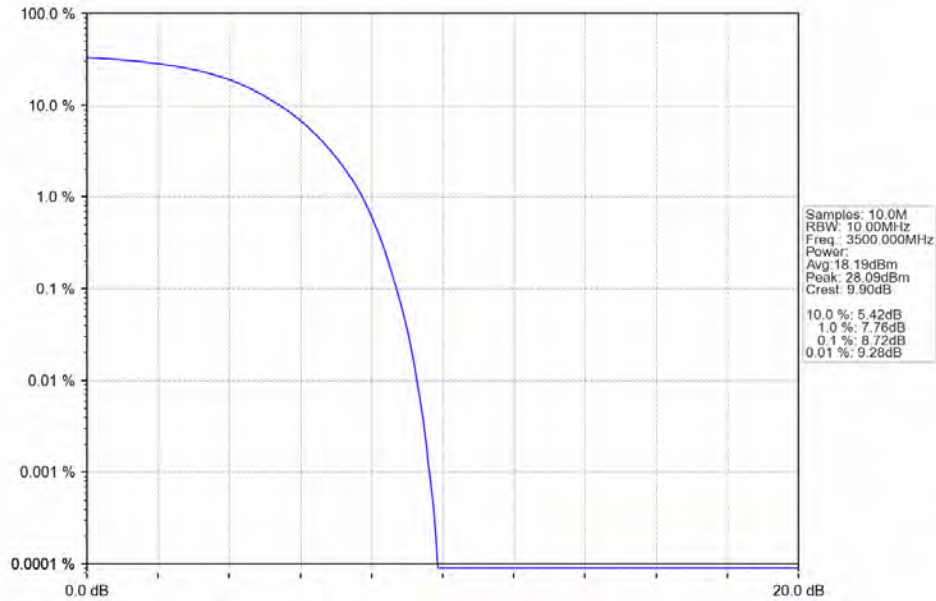
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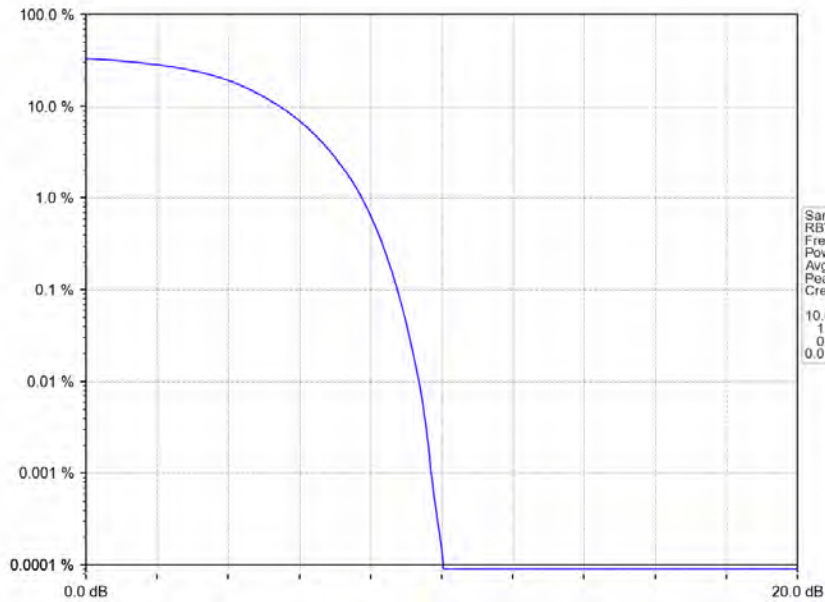
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Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



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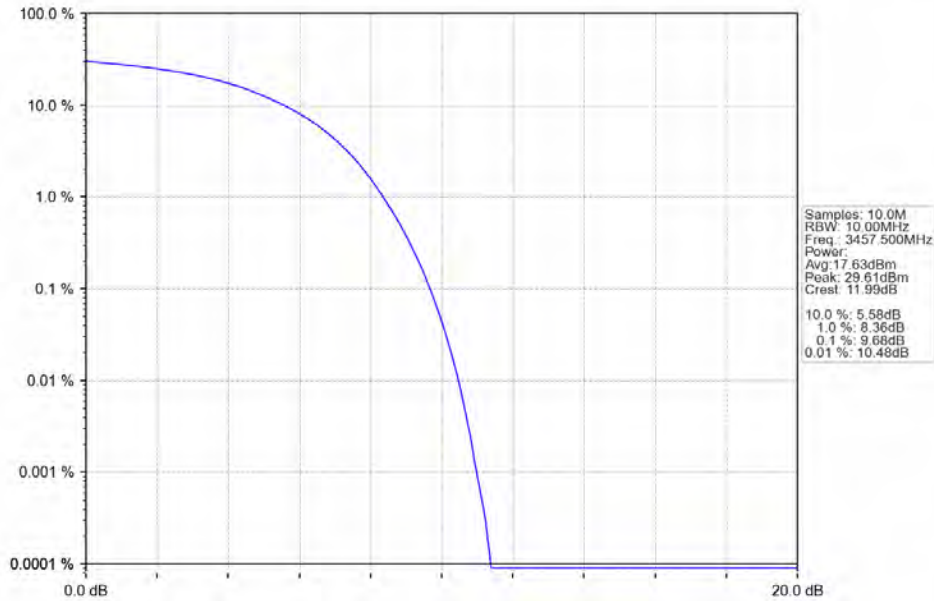
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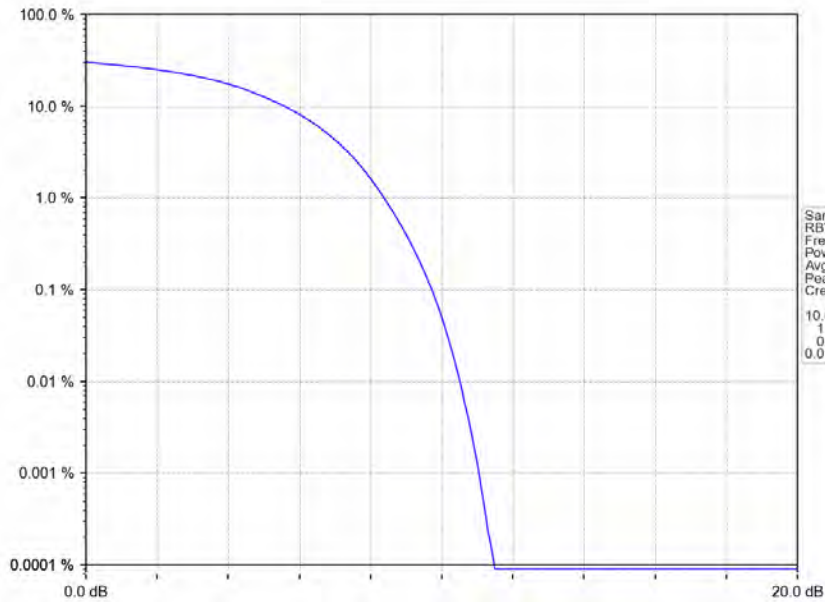
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Band42a_15MHz_16QAM_MCH_3500MHz_RB_75_0_NTNV



Band42a_15MHz_16QAM_HCH_3542.5MHz_RB_75_0_NTNV



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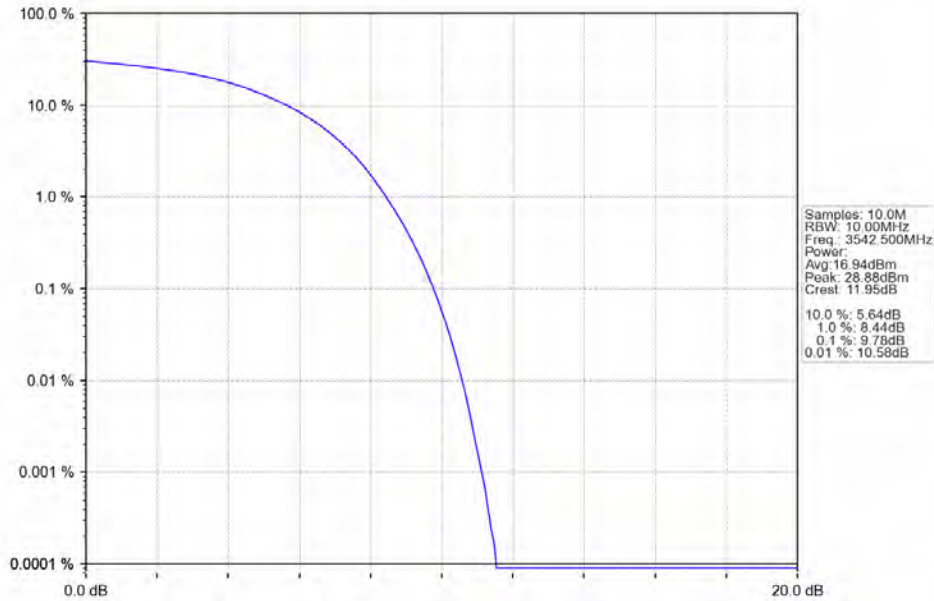
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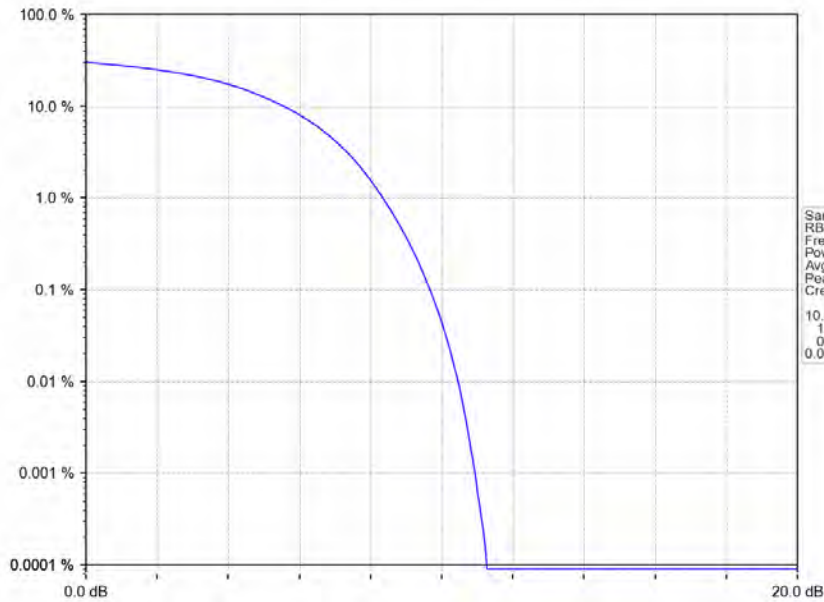
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Band42a_15MHz_64QAM_MCH_3500MHz_RB_75_0_NTNV



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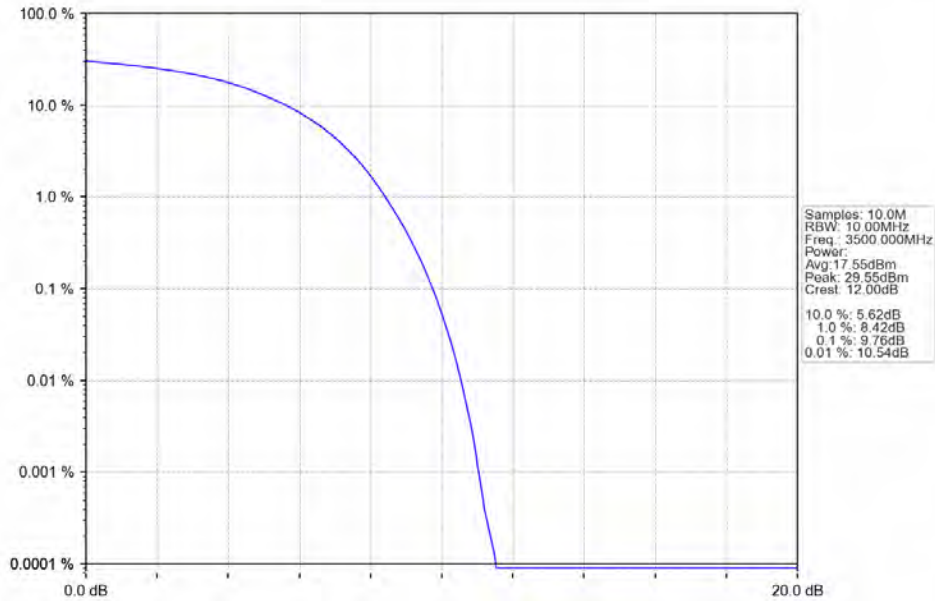
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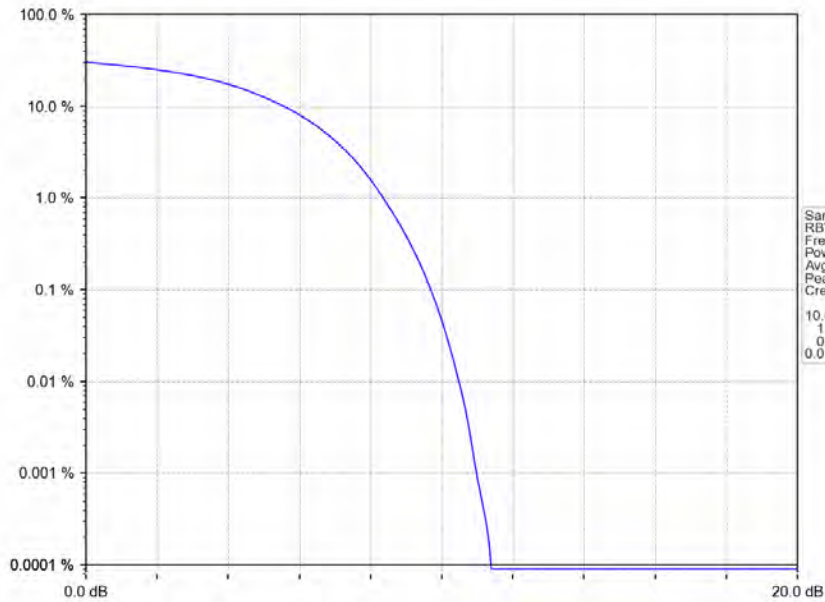
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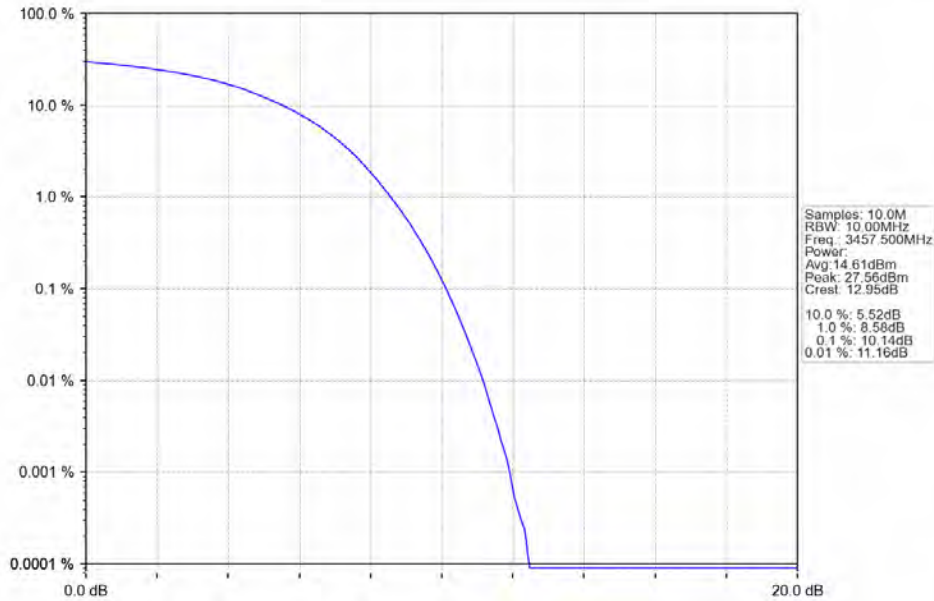
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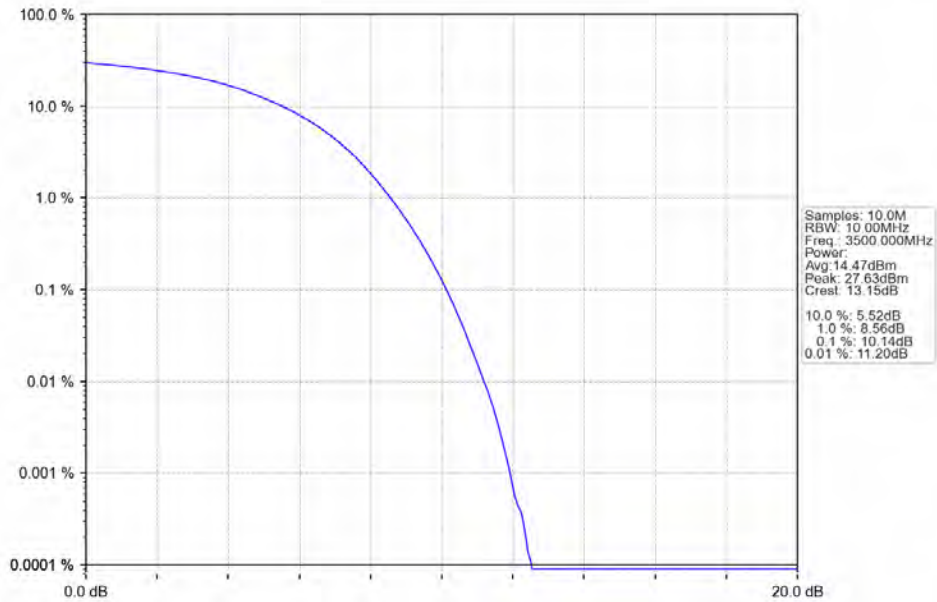
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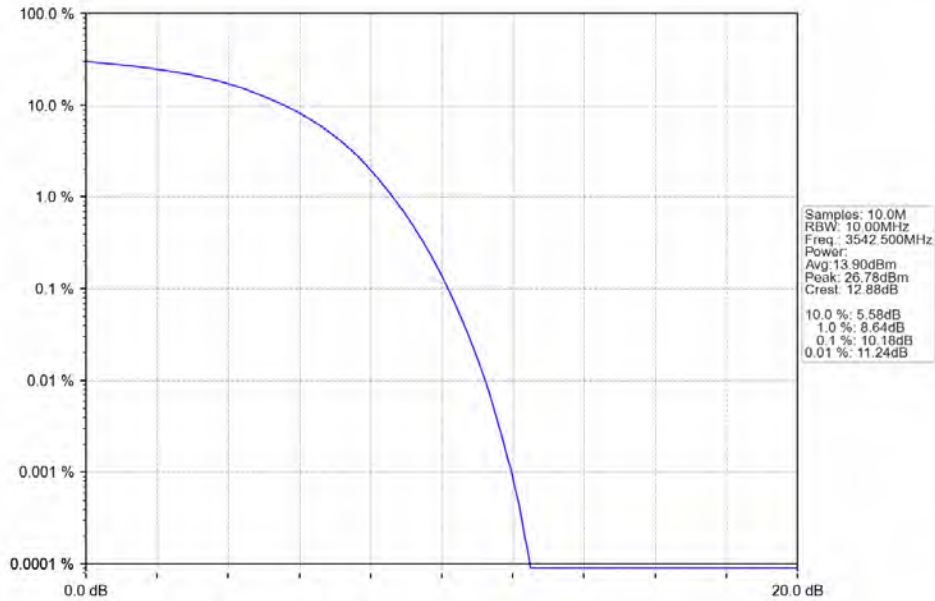
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5.4 B42a_20MHz

5.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3460	100	0	9.22	<=13	Pass
	3500	100	0	9.20	<=13	Pass
	3540	100	0	9.24	<=13	Pass
16QAM	3460	100	0	10.16	<=13	Pass
	3500	100	0	10.22	<=13	Pass
	3540	100	0	10.18	<=13	Pass
64QAM	3460	100	0	10.16	<=13	Pass
	3500	100	0	10.20	<=13	Pass
	3540	100	0	10.16	<=13	Pass
256QAM	3460	100	0	10.44	<=13	Pass
	3500	100	0	10.44	<=13	Pass
	3540	100	0	10.48	<=13	Pass



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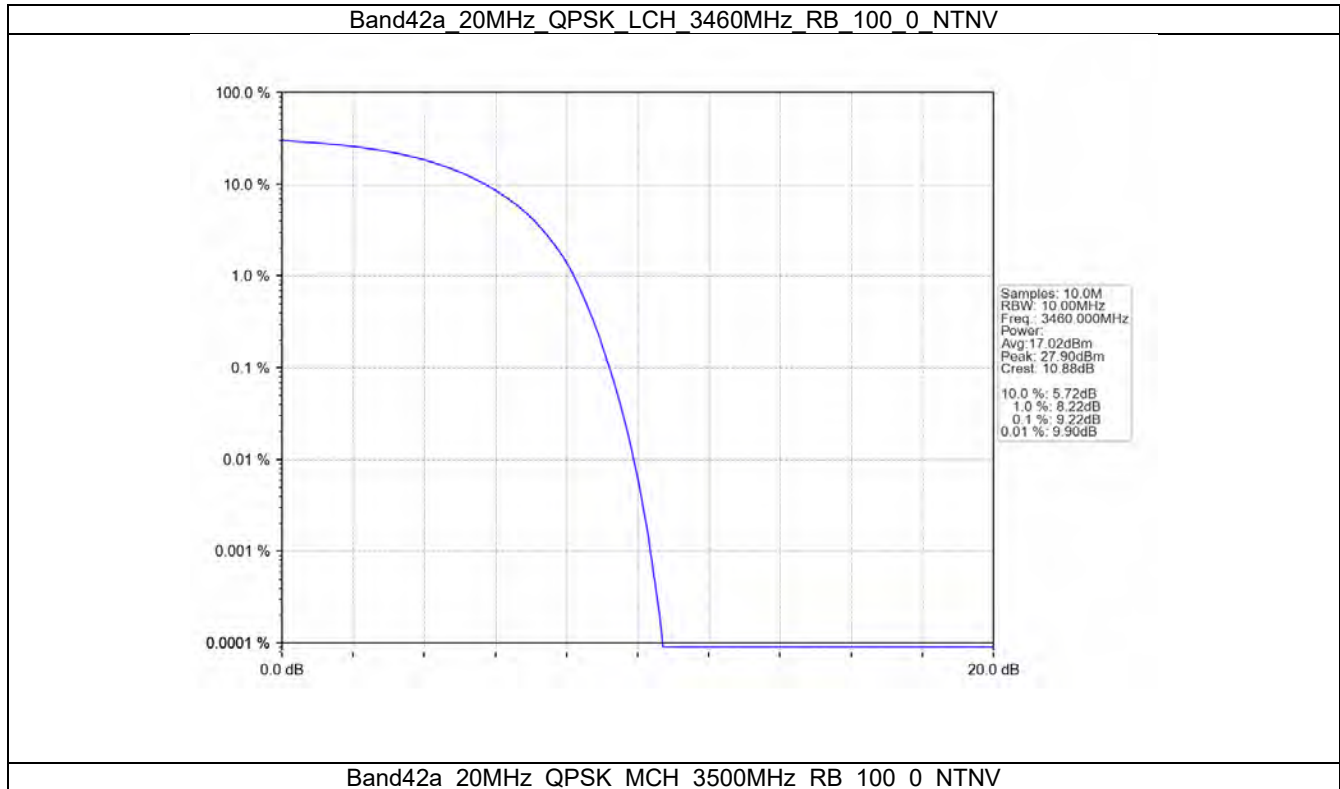
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5.4.2 Test Graph



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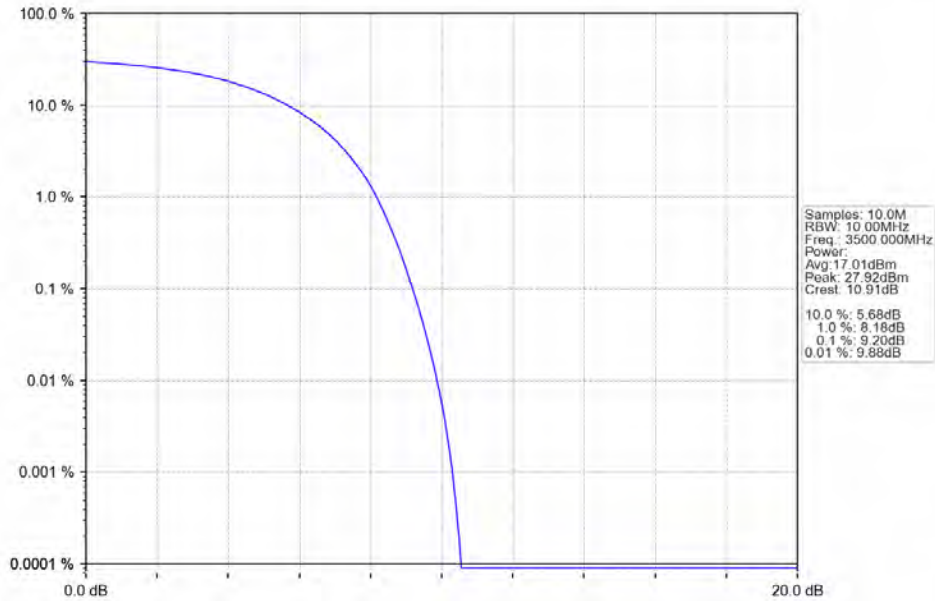
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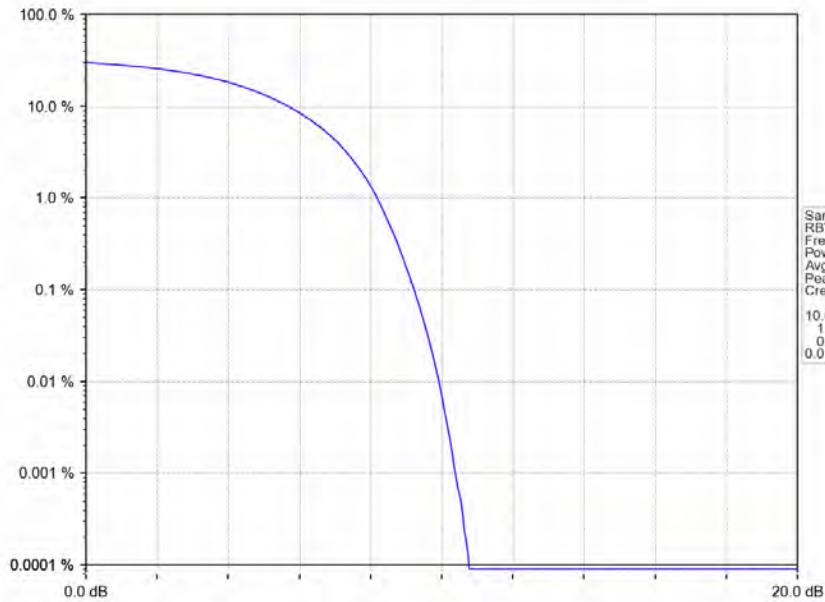
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Band42a_20MHz_QPSK_HCH_3540MHz_RB_100_0_NTNV



Band42a_20MHz_16QAM_LCH_3460MHz_RB_100_0_NTNV



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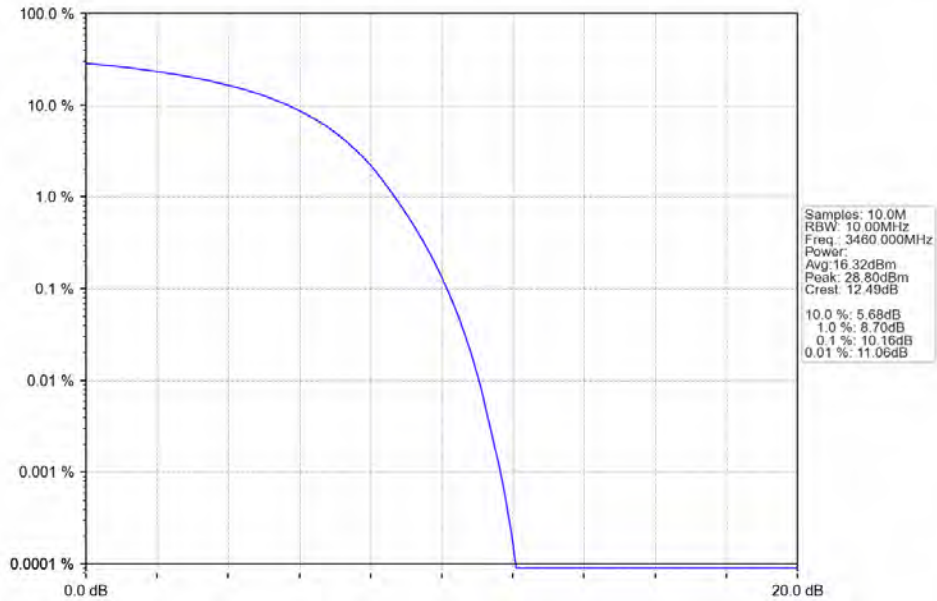
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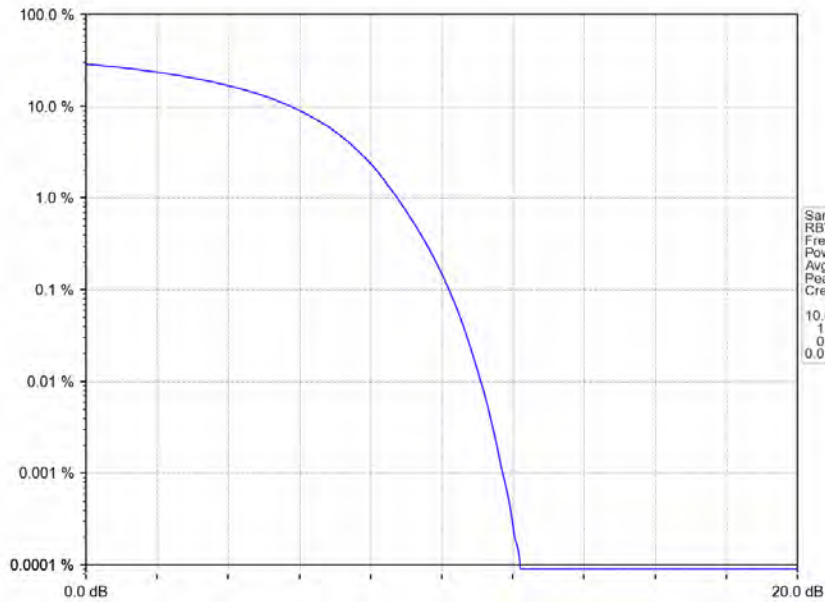
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Band42a_20MHz_16QAM_HCH_3540MHz_RB_100_0_NTNV



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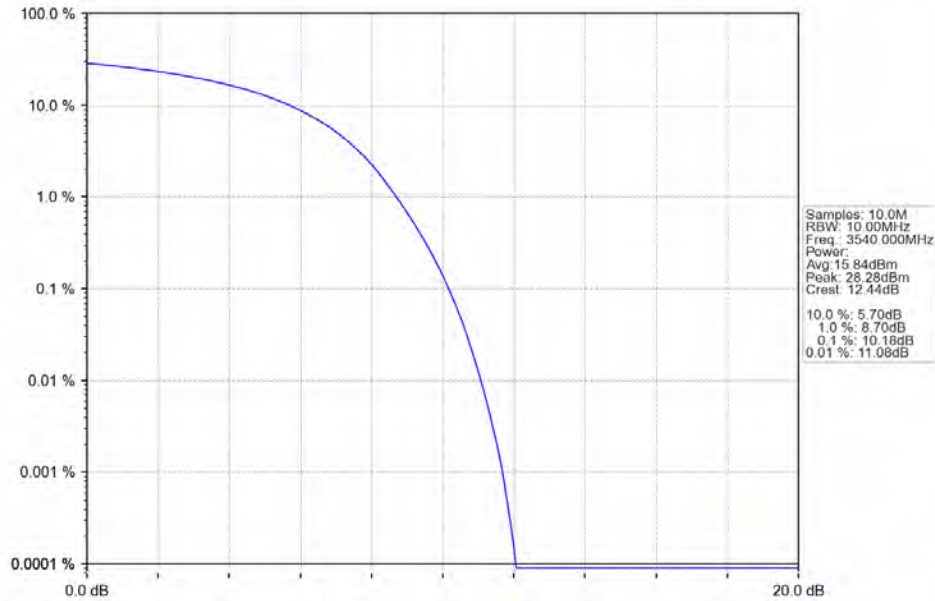
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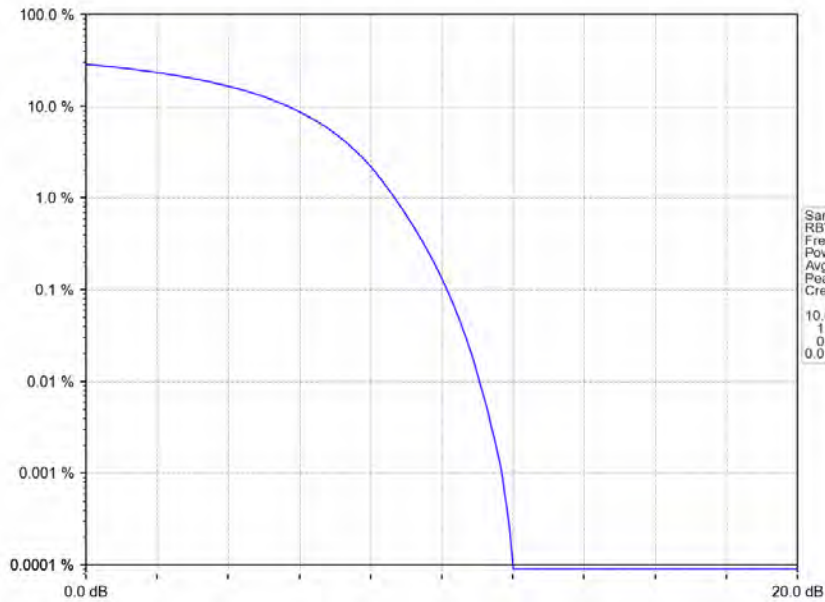
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Band42a 20MHz 64QAM LCH 3460MHz RB 100 0 NTN



Band42a 20MHz 64QAM MCH 3500MHz RB 100 0 NTN



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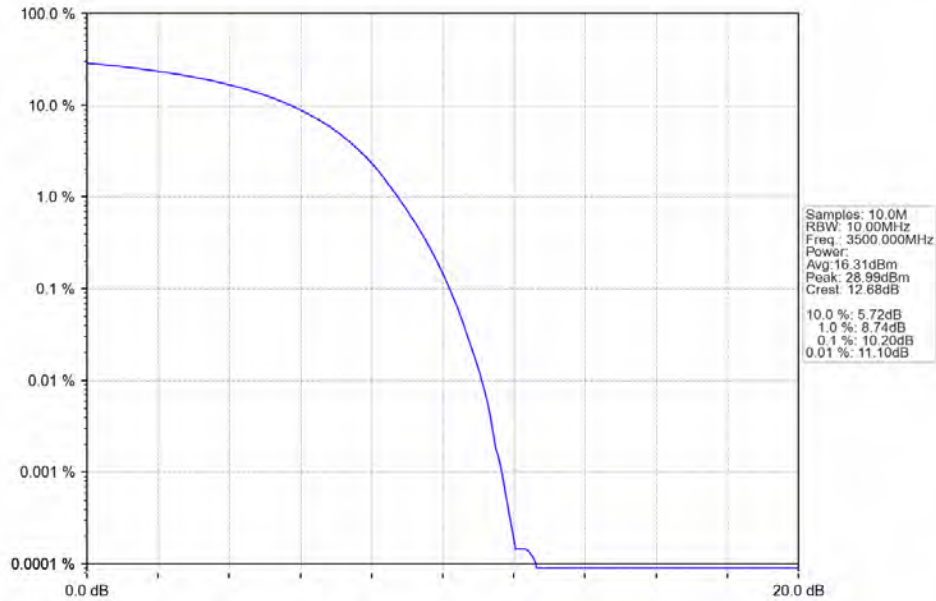
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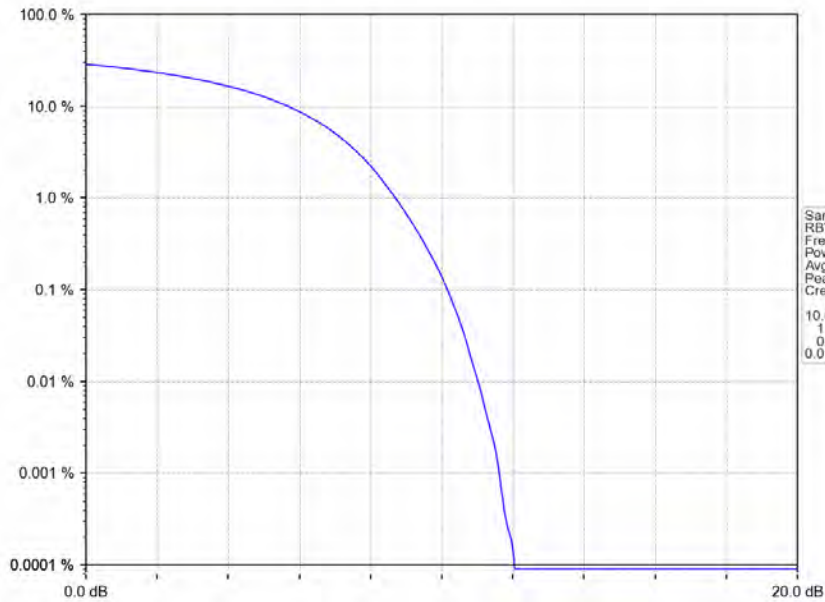
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Band42a 20MHz 256QAM LCH 3460MHz RB 100 0 NTNV



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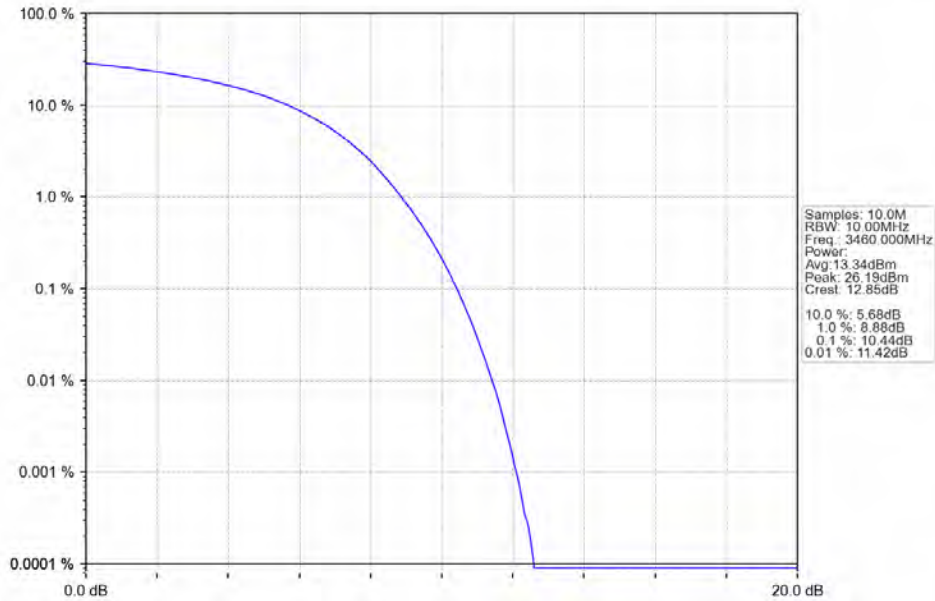
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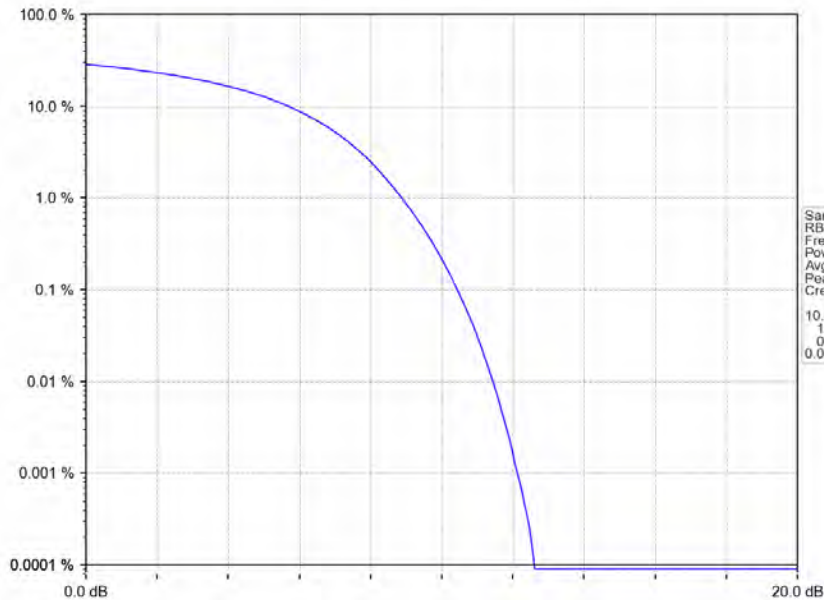
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Band42a_20MHz_256QAM_HCH_3540MHz_RB_100_0_NTNV



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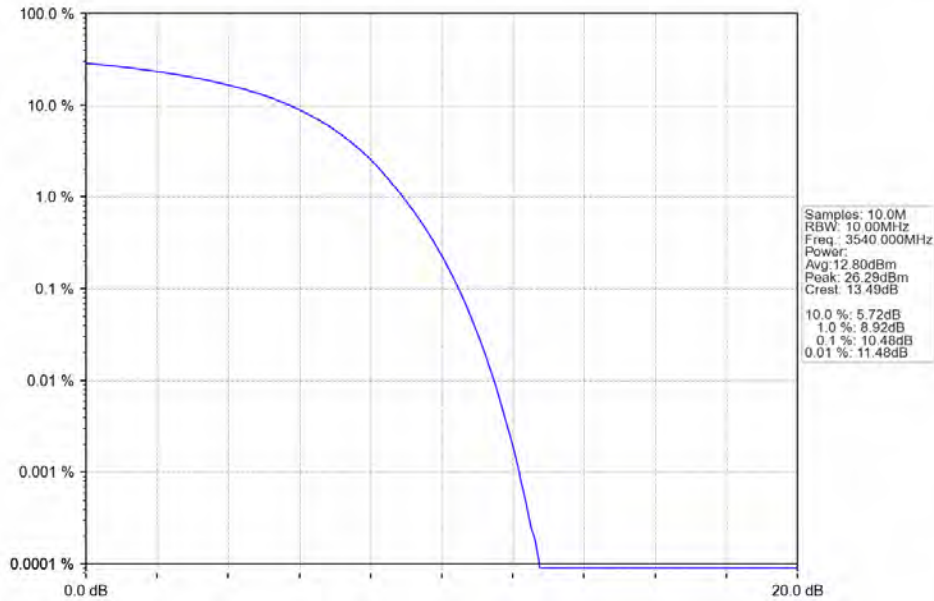
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6. Spurious Emission & Band Edges

6.1 B42a_5MHz

6.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3452.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3547.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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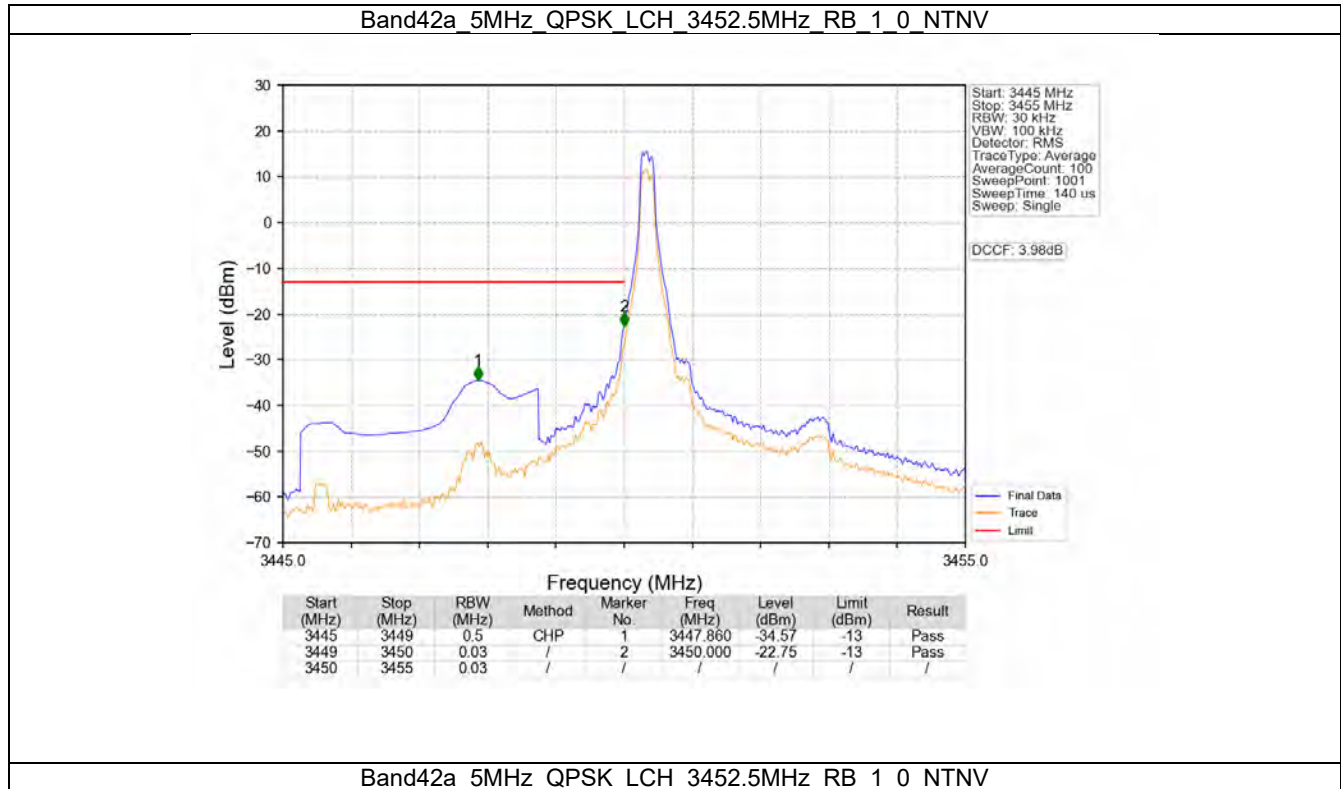
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6.1.2 Test Graph



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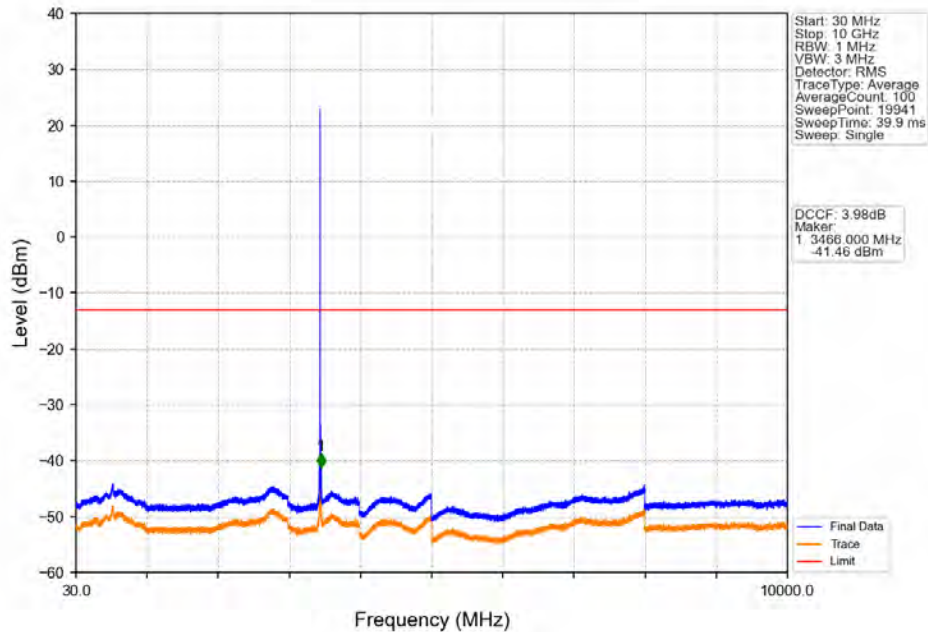
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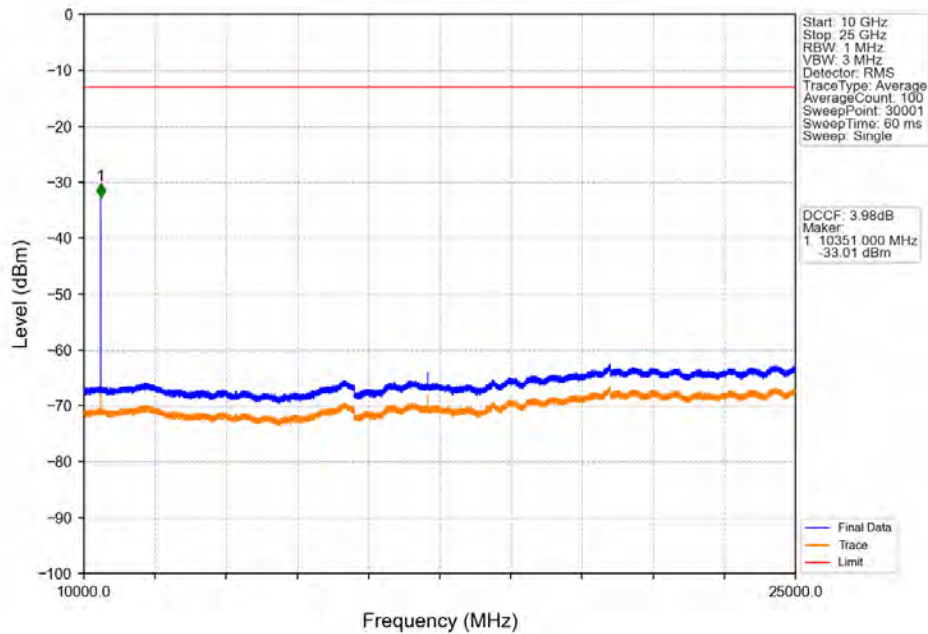
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Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



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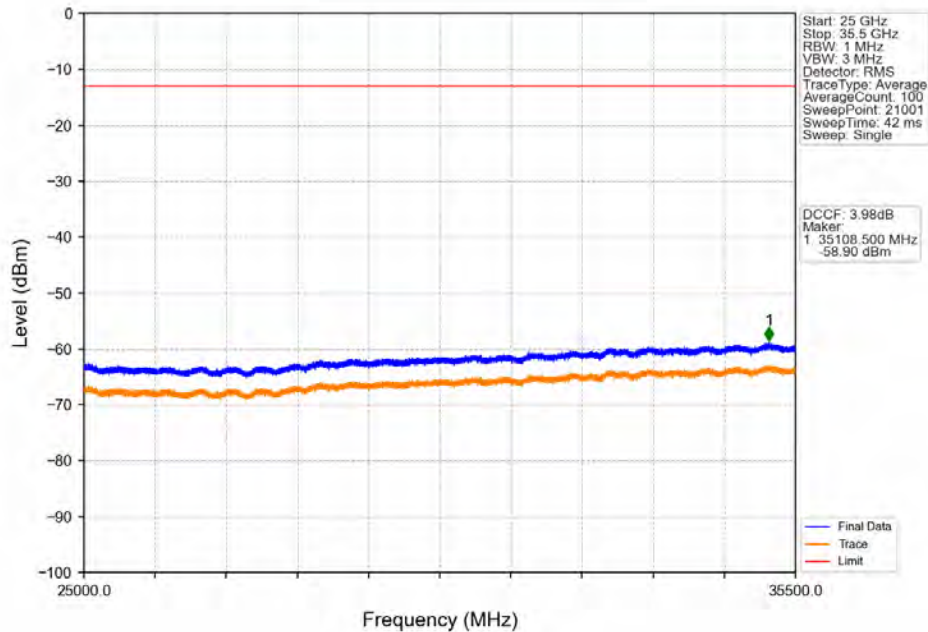
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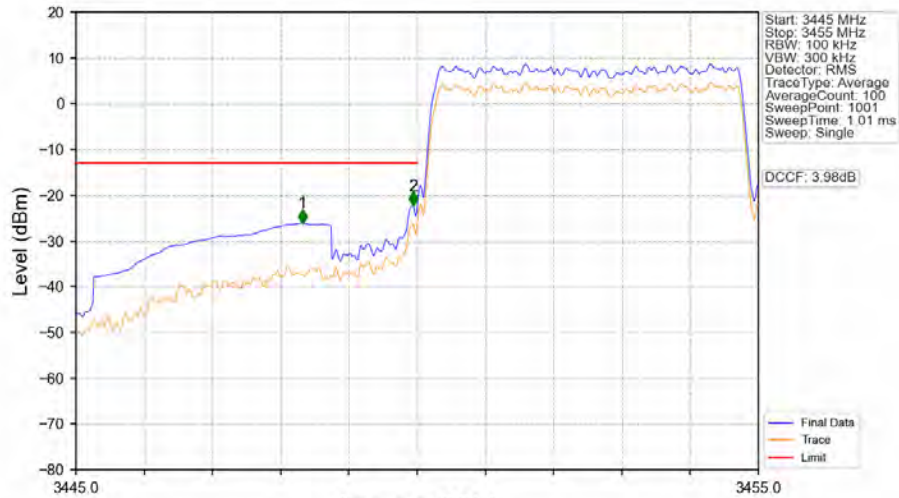
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Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3449	0.5	CHP	1	3448.320	-26.12	-13	Pass
3449	3450	0.1	/	2	3449.940	-22.34	-13	Pass
3450	3455	0.1	/	/	/	/	/	/

Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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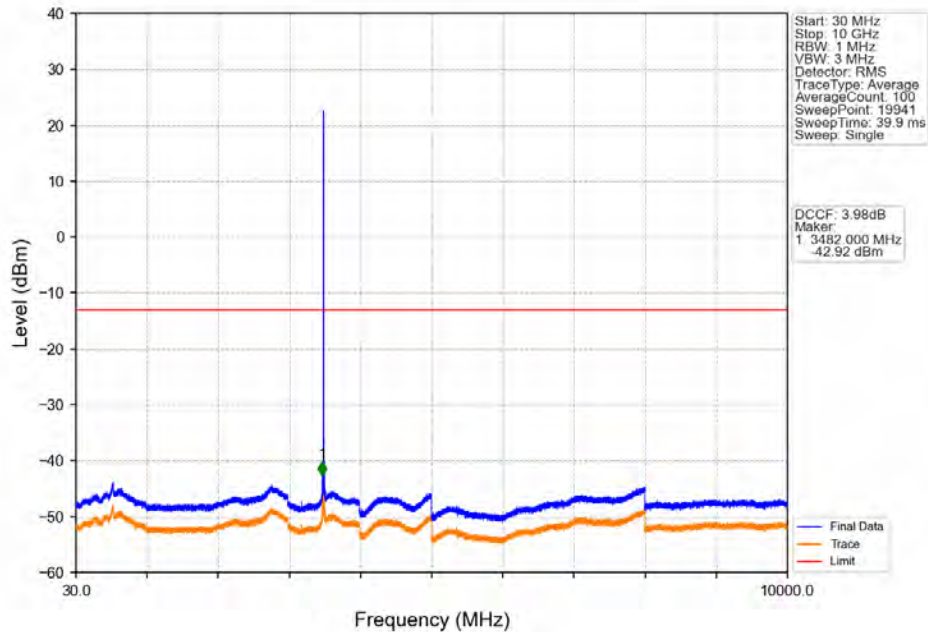
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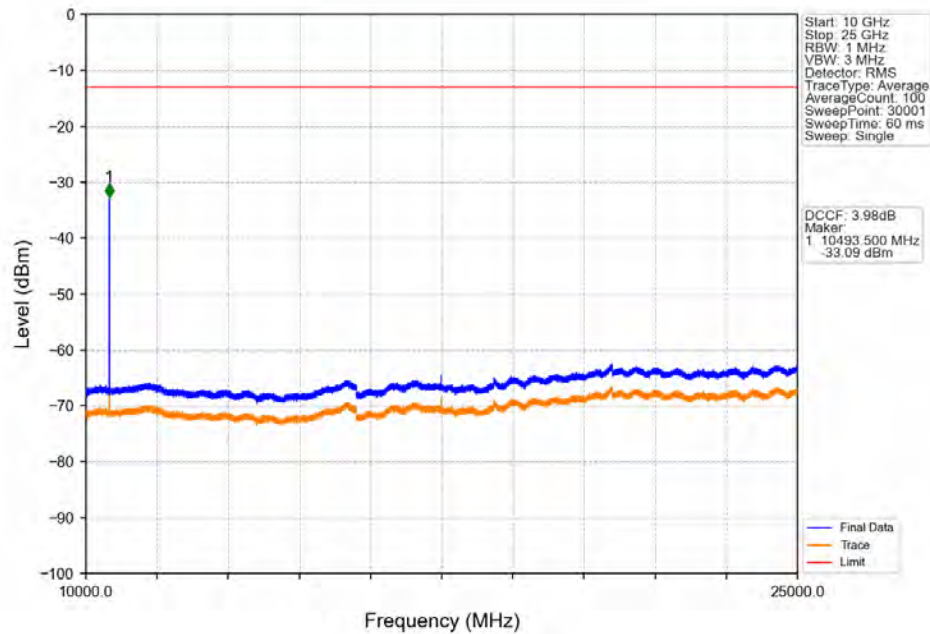
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Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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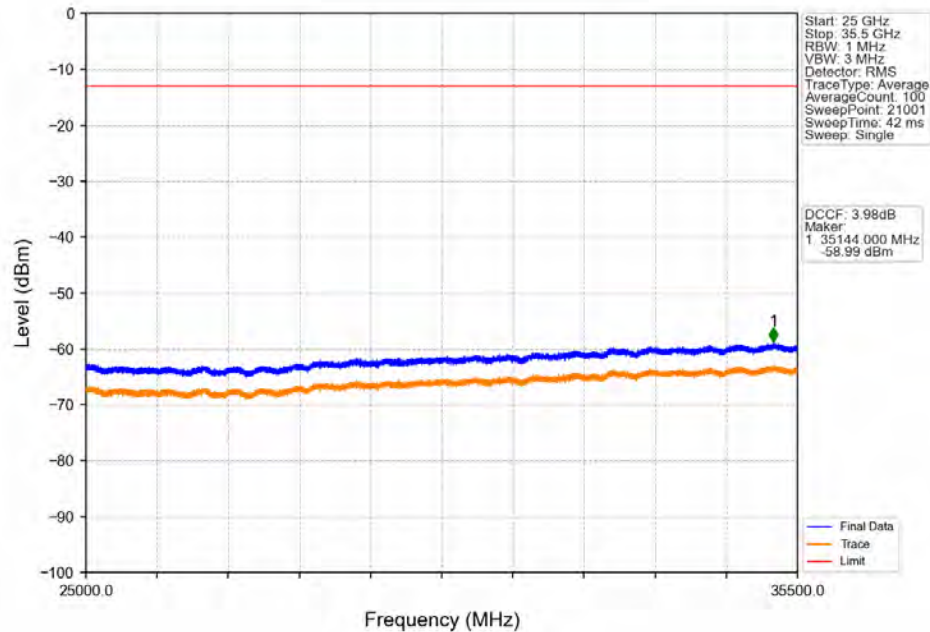
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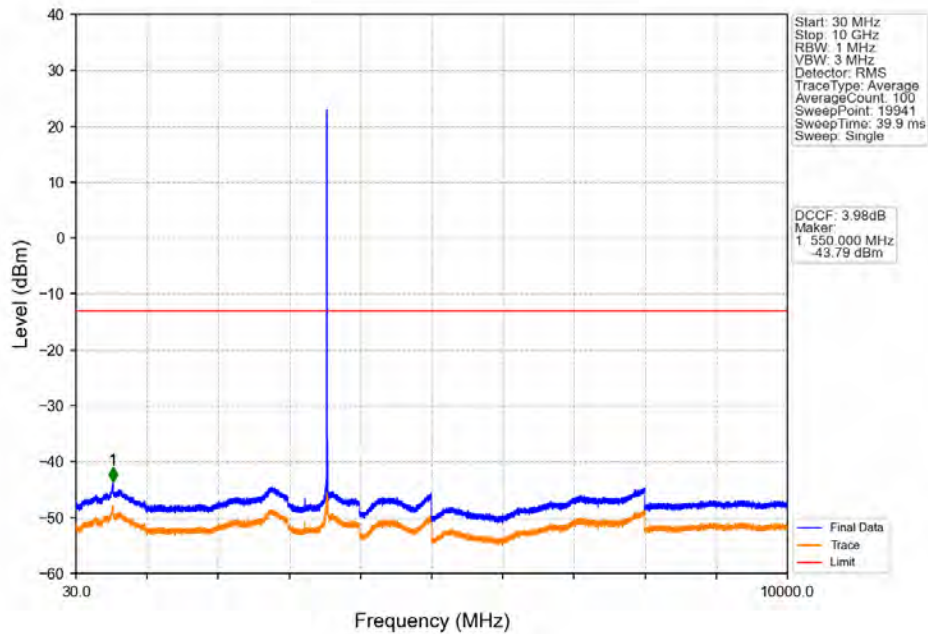
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Band42a 5MHz QPSK HCH 3547.5MHz_RB_1_0_NTNV



Band42a 5MHz QPSK HCH 3547.5MHz_RB_1_0_NTNV



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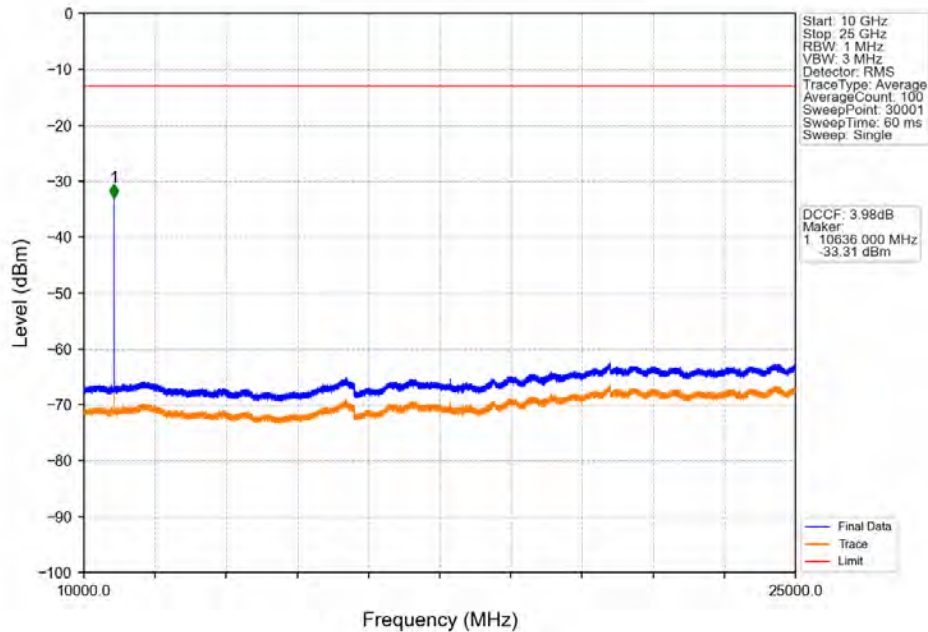
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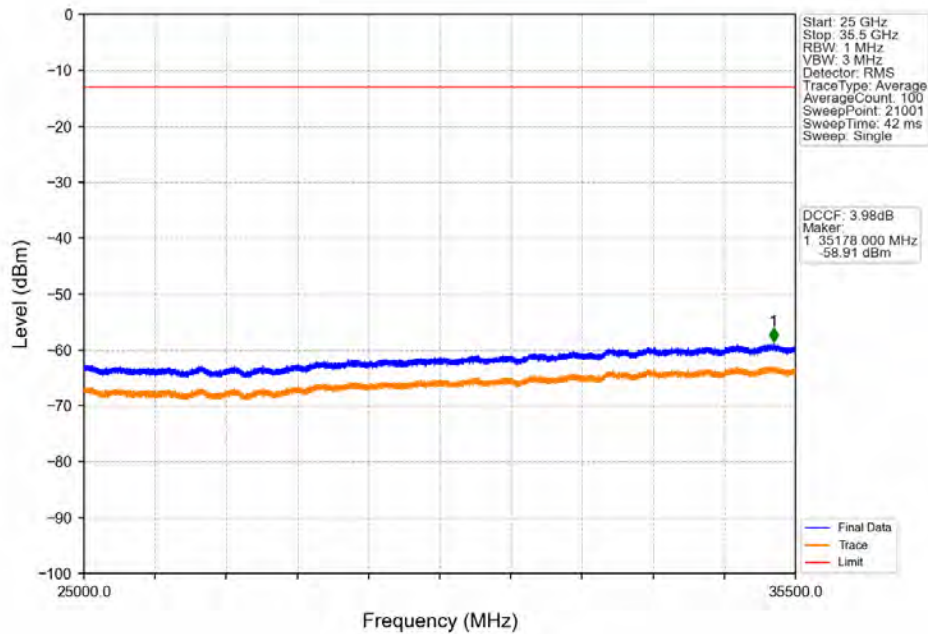
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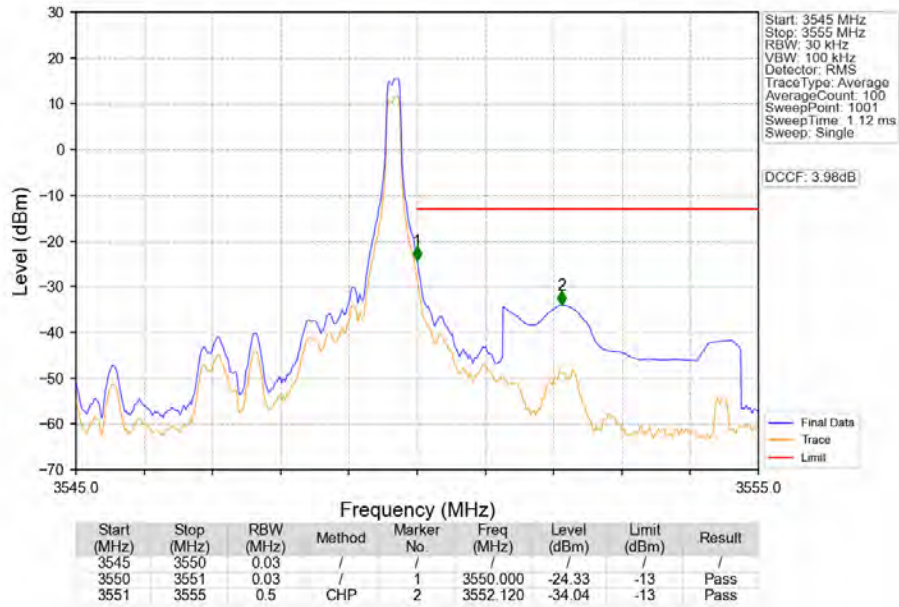
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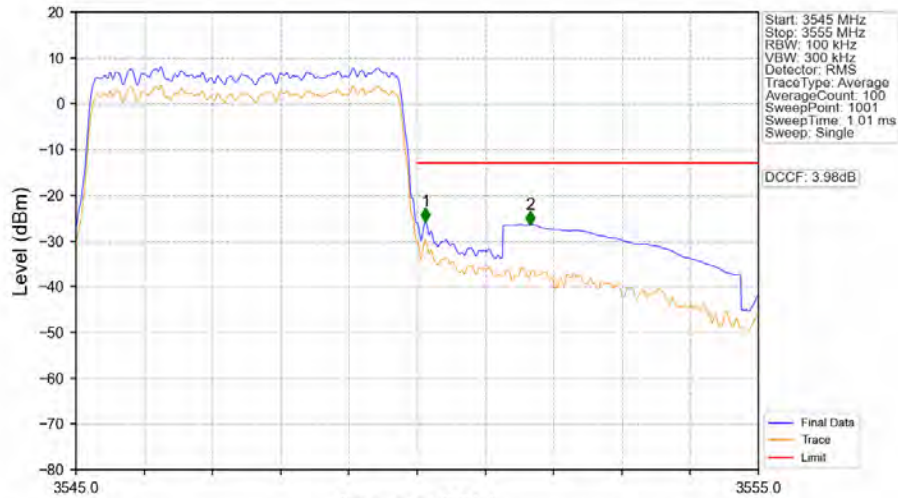
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Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.1	/	/	/	/	/	/
3550	3551	0.1	/	1	3550.120	-25.78	-13	Pass
3551	3555	0.5	CHP	2	3551.660	-26.49	-13	Pass



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6.2 B42a_10MHz

6.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3455	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	3500	1	0	Refer To Test Graph	Pass
	3545	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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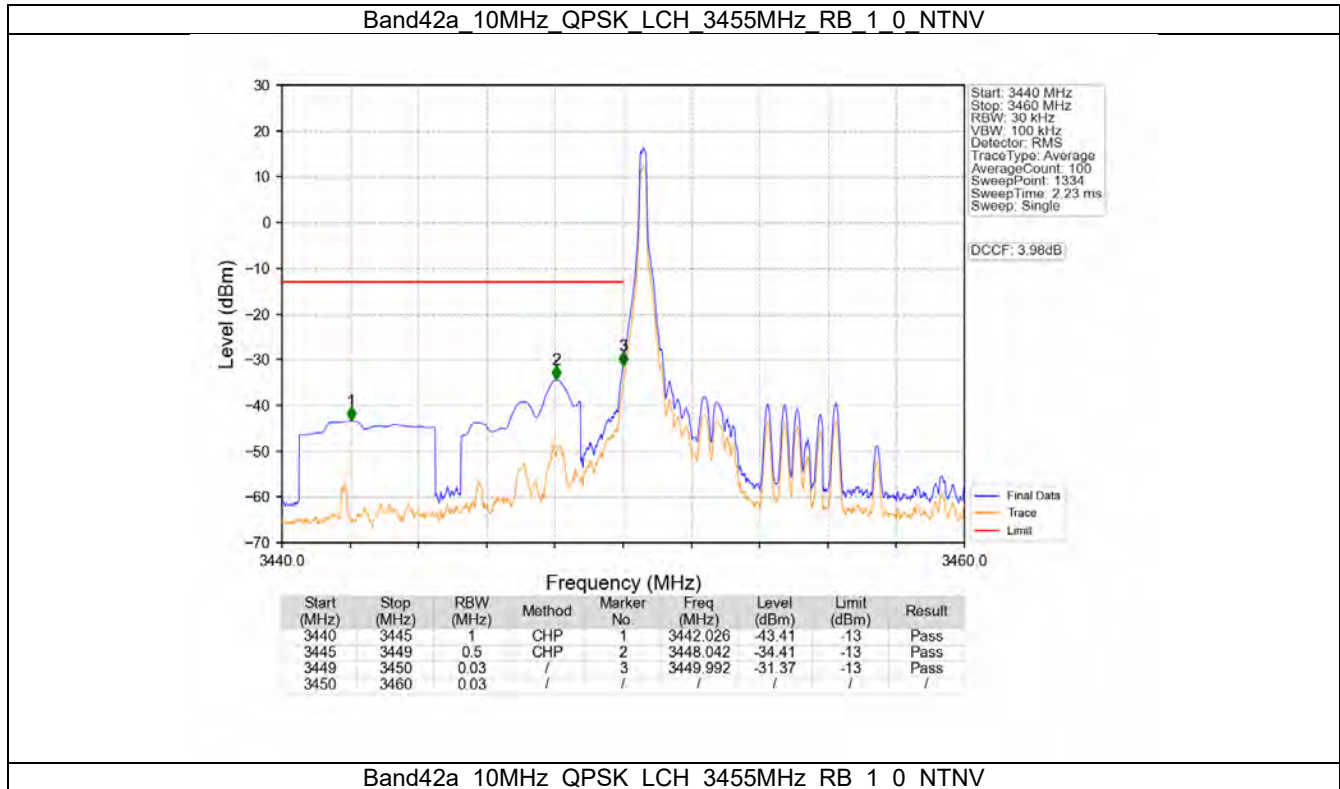
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6.2.2 Test Graph



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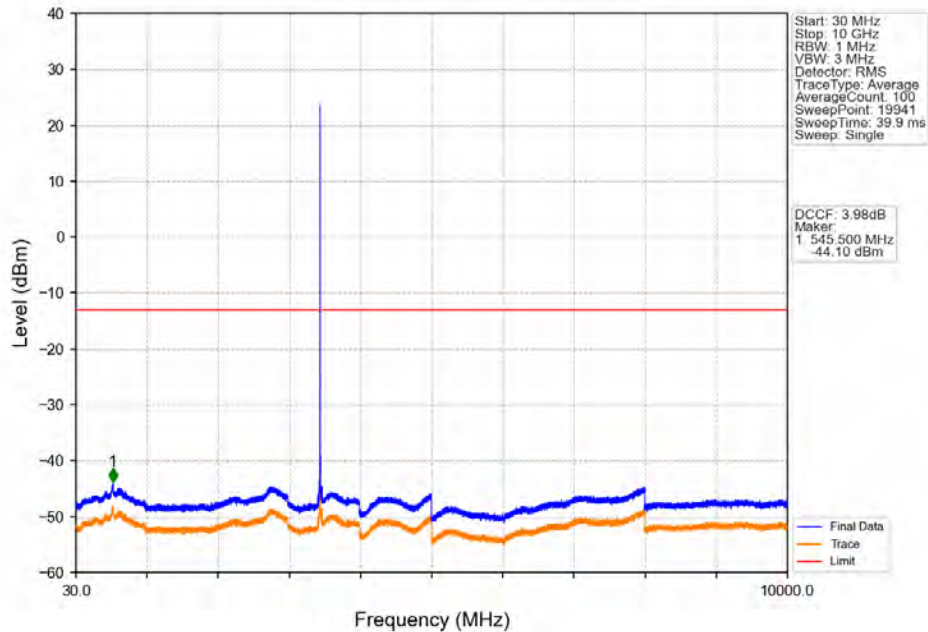
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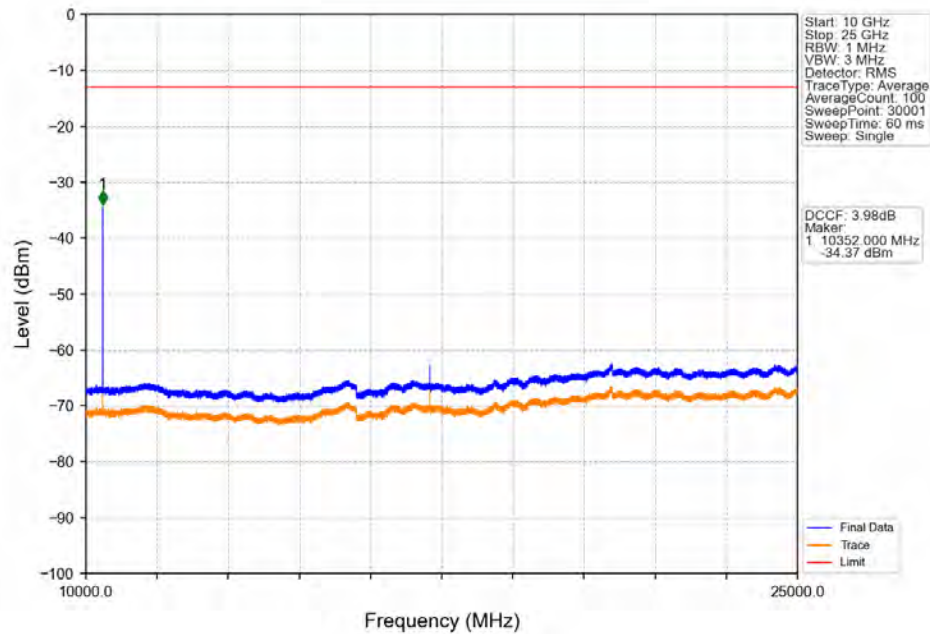
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Band42a_10MHz_QPSK_LCH_3455MHz_RB_1_0_NTNV



Band42a_10MHz_QPSK_LCH_3455MHz_RB_1_0_NTNV



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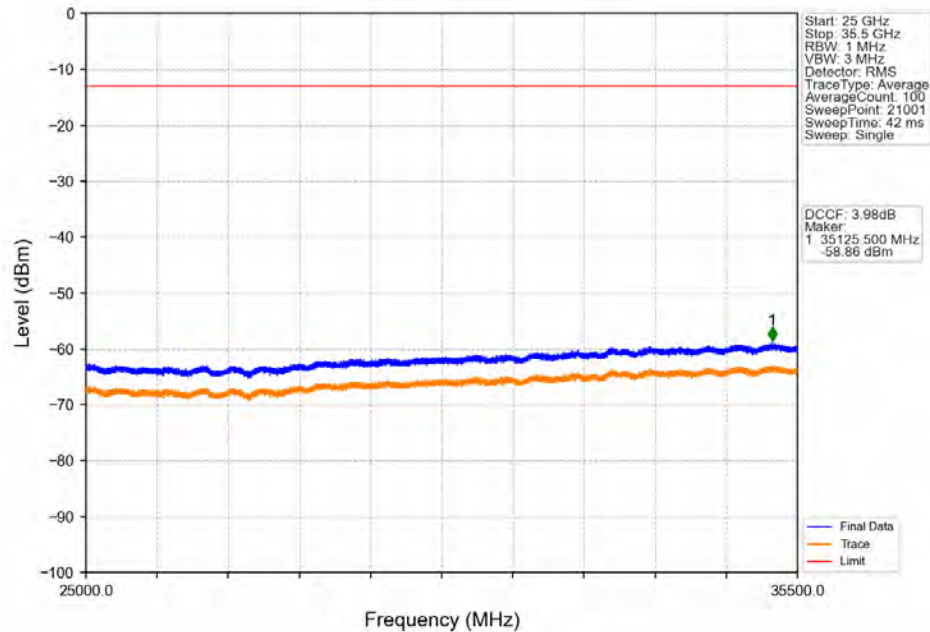
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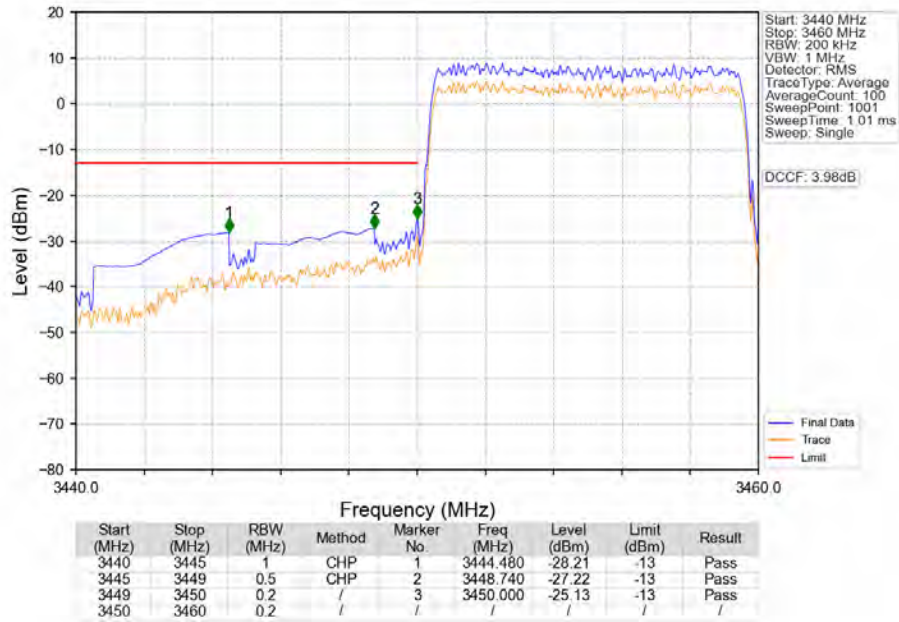
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Band42a 10MHz QPSK LCH 3455MHz RB 50 0 NTN



Band42a 10MHz QPSK MCH 3500MHz RB 1 0 NTN



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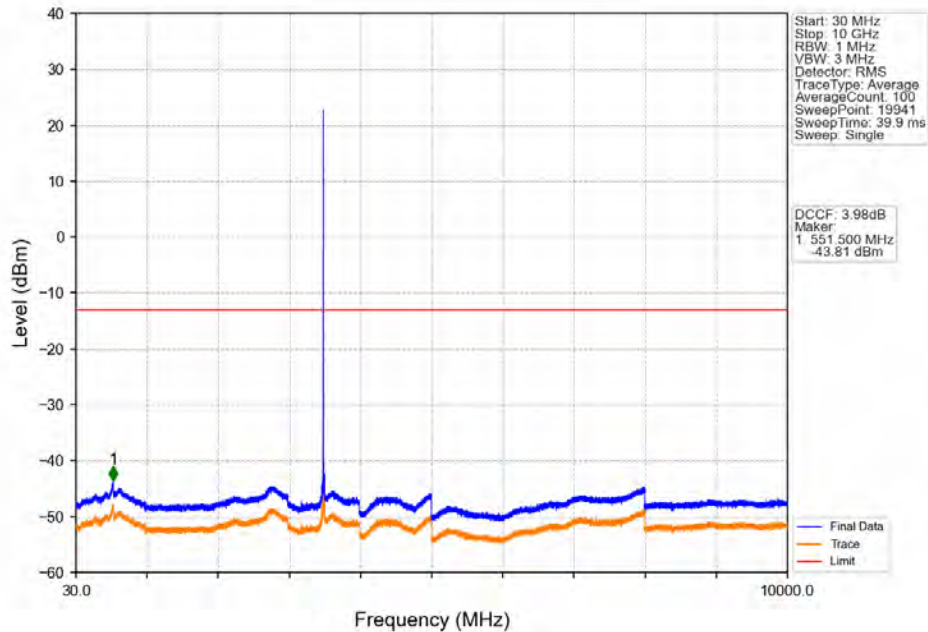
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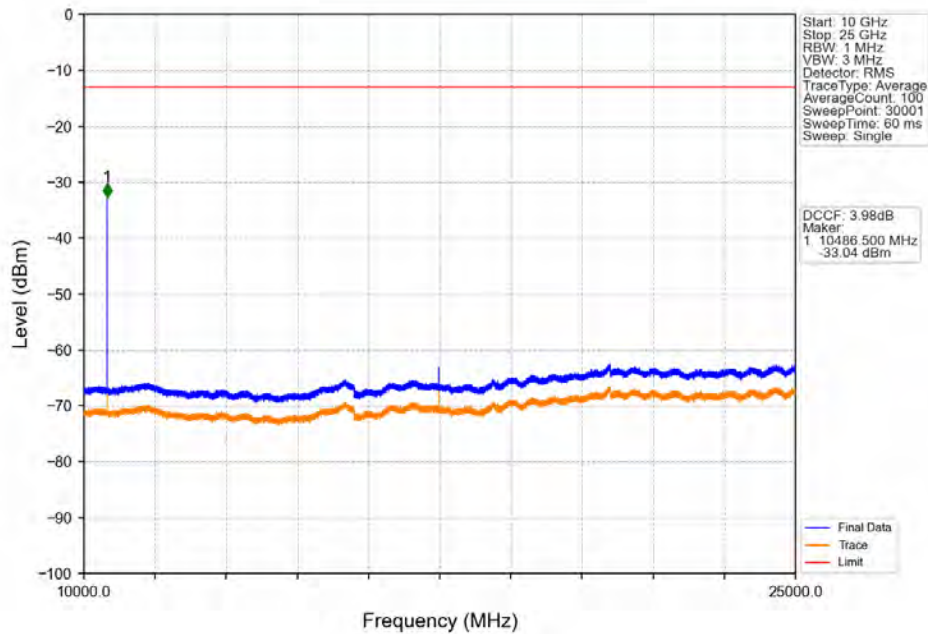
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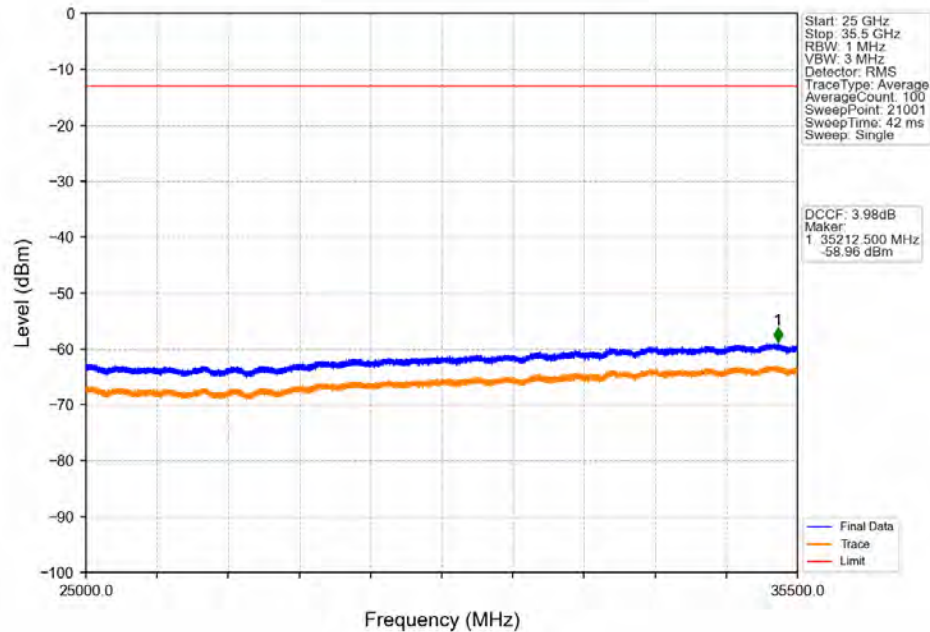
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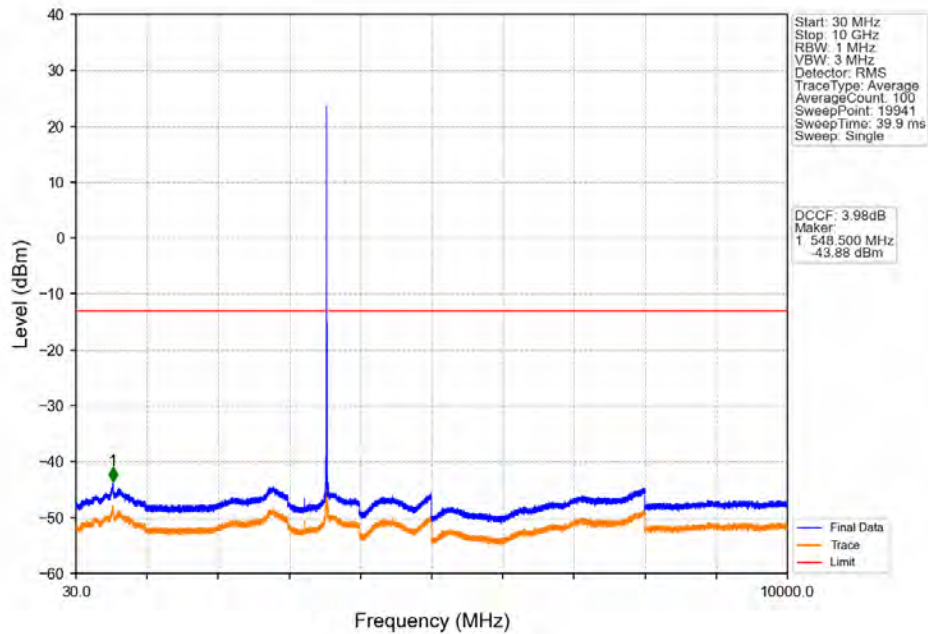
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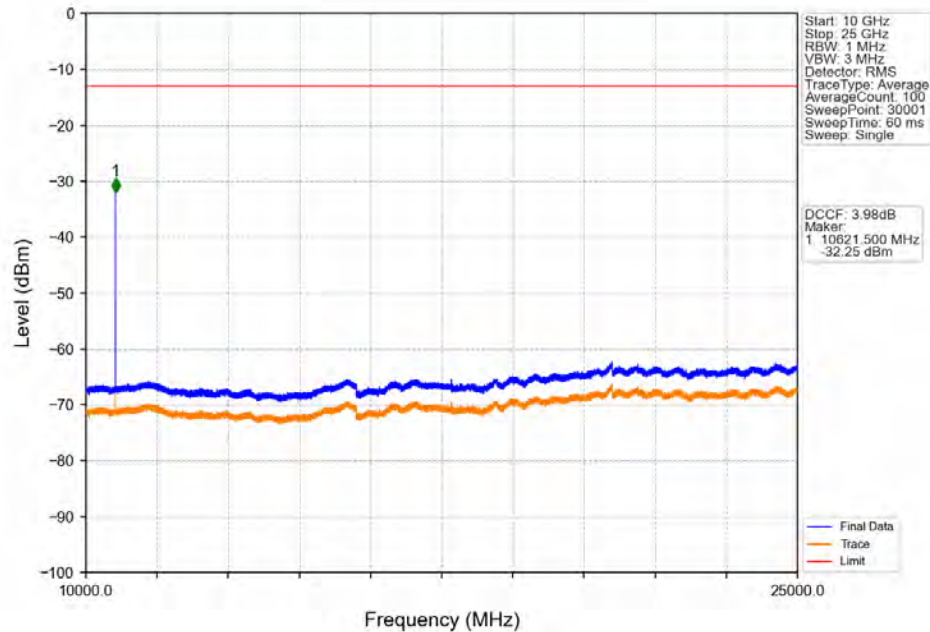
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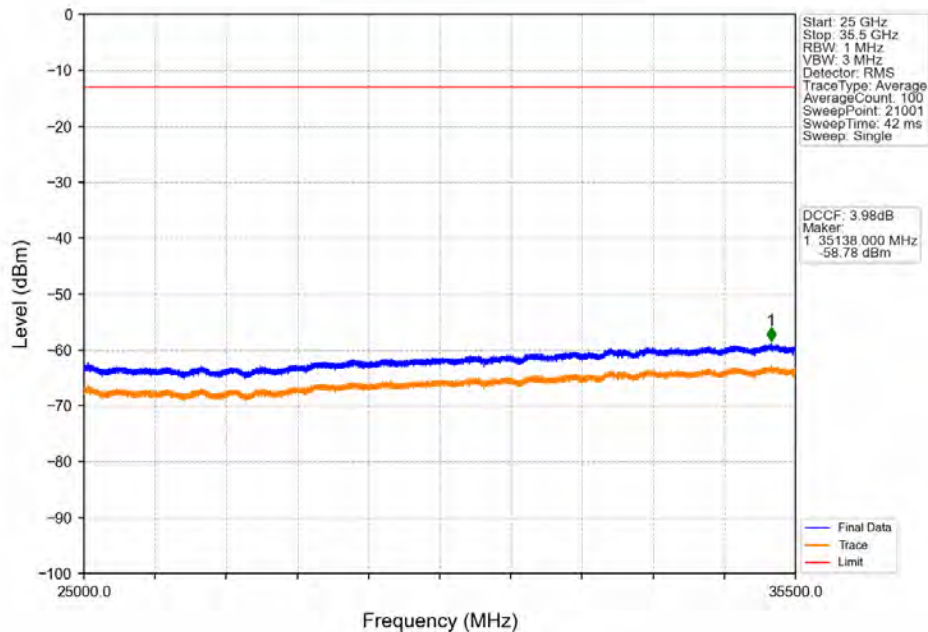
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Band42a_10MHz_QPSK_HCH_3545MHz_RB_1_0_NTNV



Band42a_10MHz_QPSK_HCH_3545MHz_RB_1_49_NTNV



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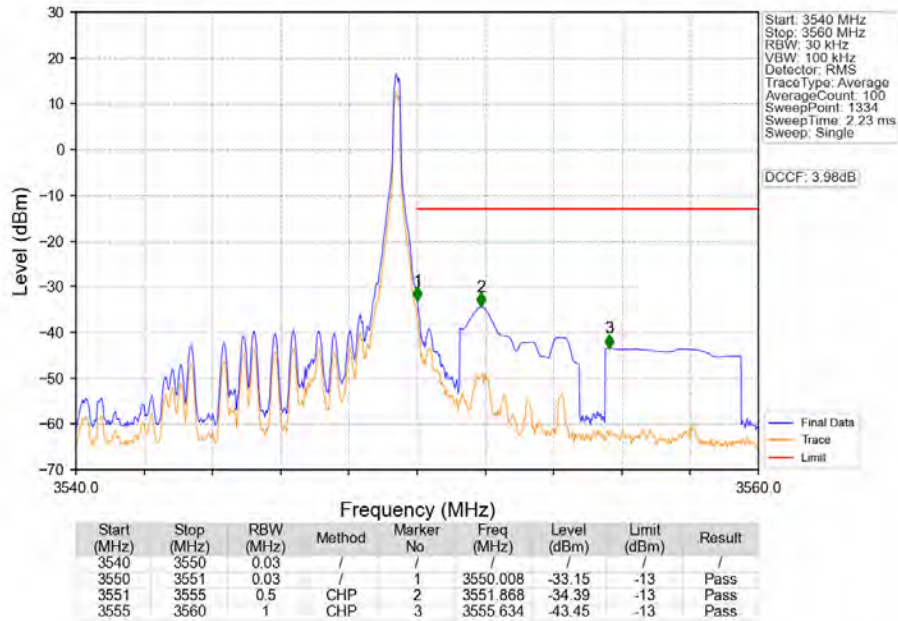
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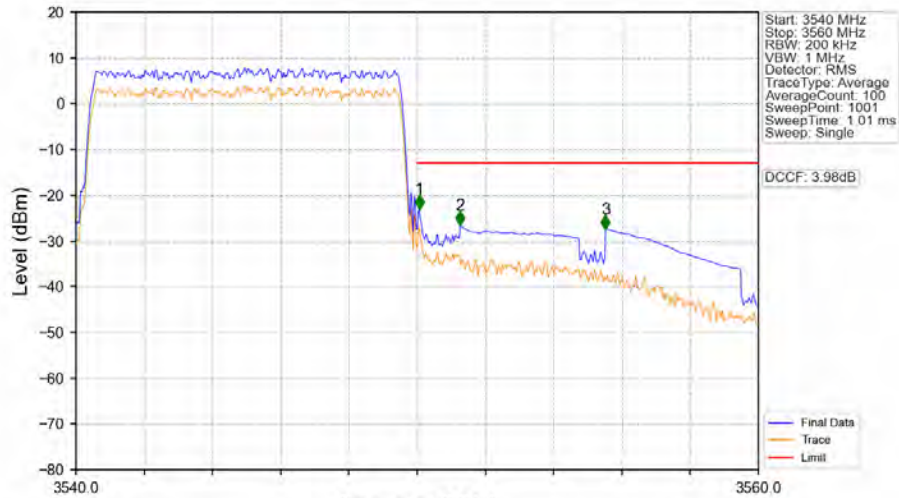
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Band42a_10MHz_QPSK_HCH_3545MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3540	3550	0.2	/	/	/	/	/	/
3550	3551	0.2	/	1	3550.060	-23.01	-13	Pass
3551	3555	0.5	CHP	2	3551.260	-26.59	-13	Pass
3555	3560	1	CHP	3	3555.520	-27.44	-13	Pass



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6.3 B42a_15MHz

6.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3457.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3542.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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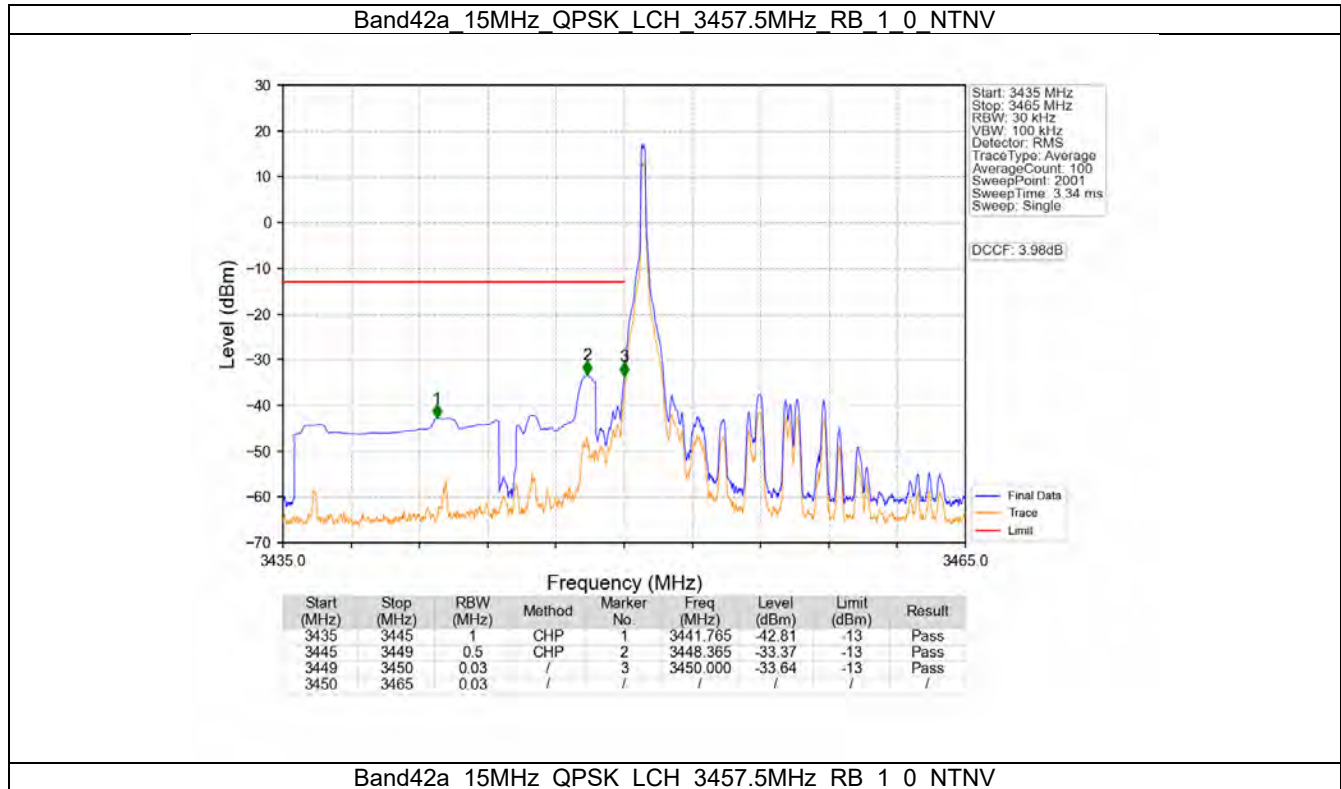
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6.3.2 Test Graph



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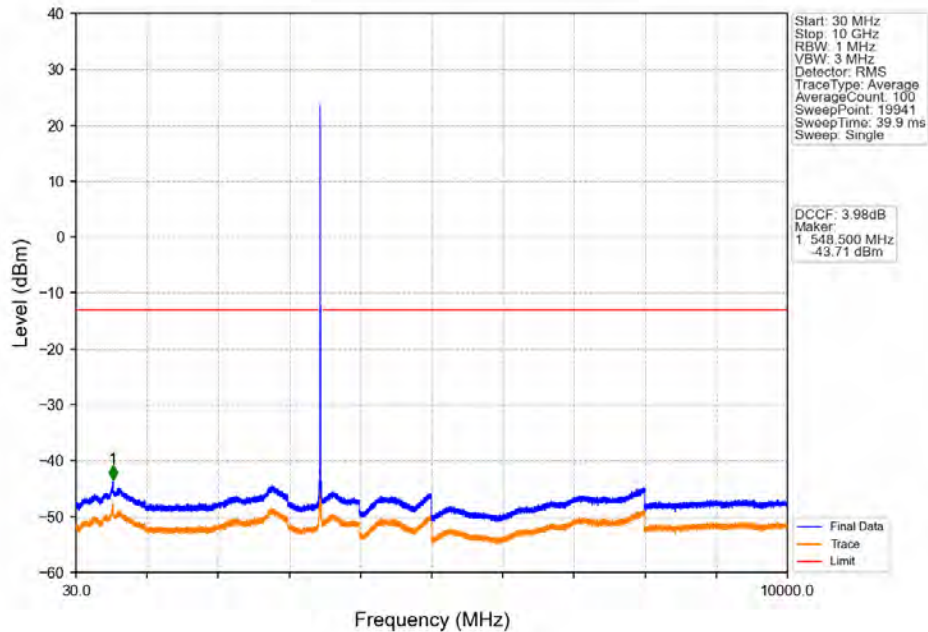
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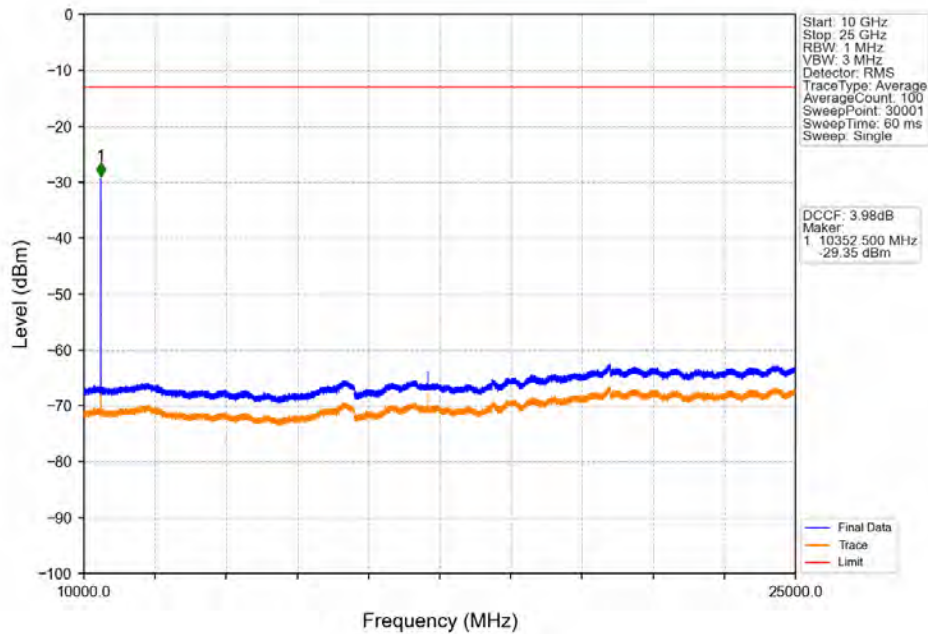
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Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_1_0_NTNV



Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_1_0_NTNV



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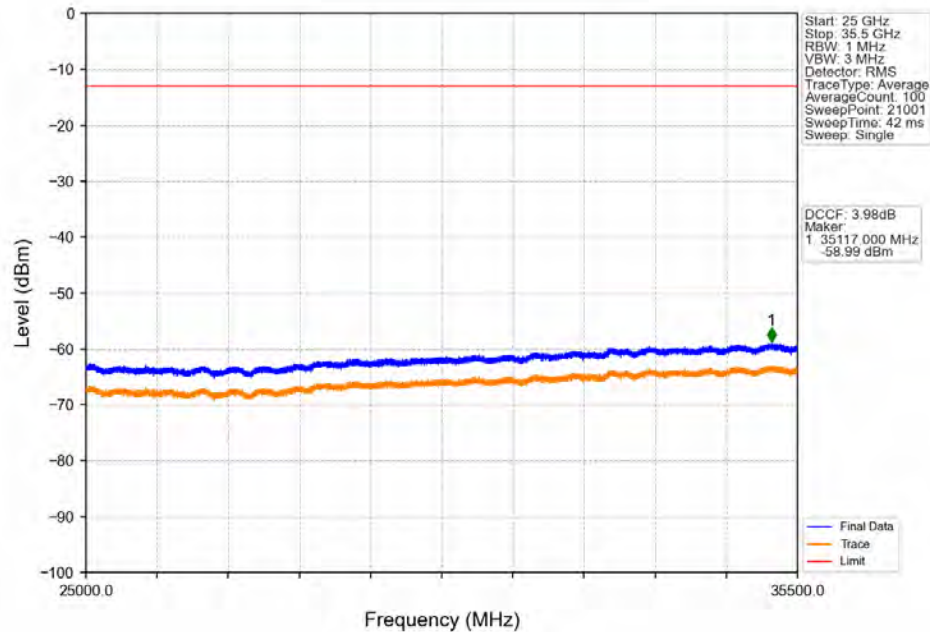
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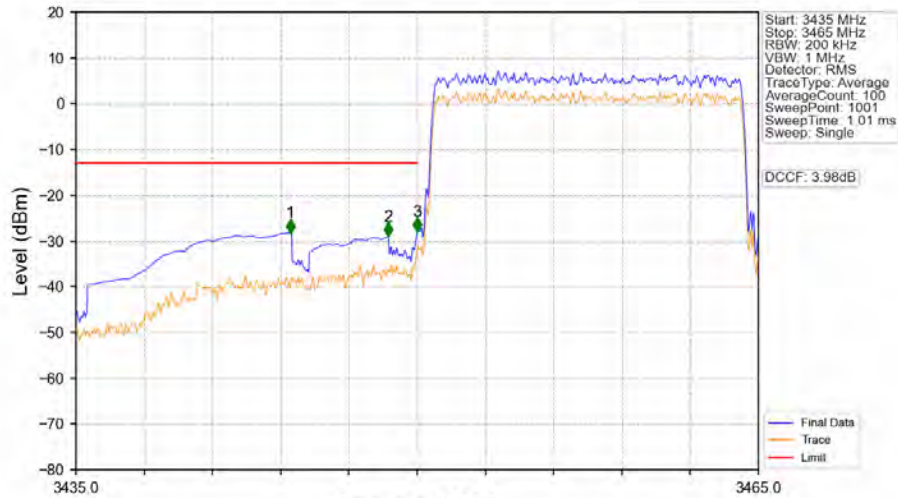
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3435	3445	1	CHP	1	3444.420	-28.25	-13	Pass
3445	3449	0.5	CHP	2	3448.740	-29.02	-13	Pass
3449	3450	0.2	/	3	3450.000	-28.02	-13	Pass
3450	3465	0.2	/	/	/	/	/	/

Band42a_15MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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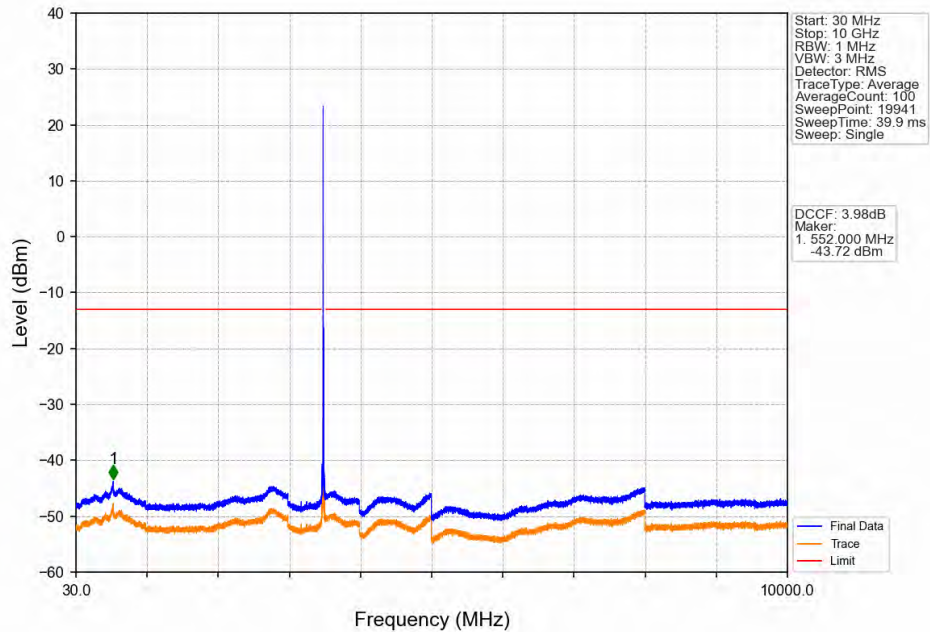
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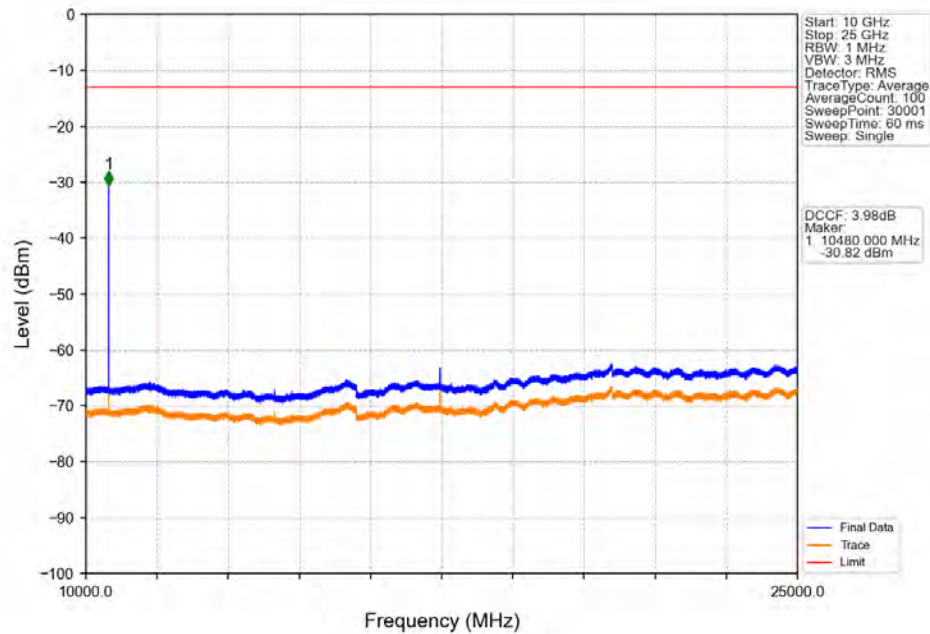
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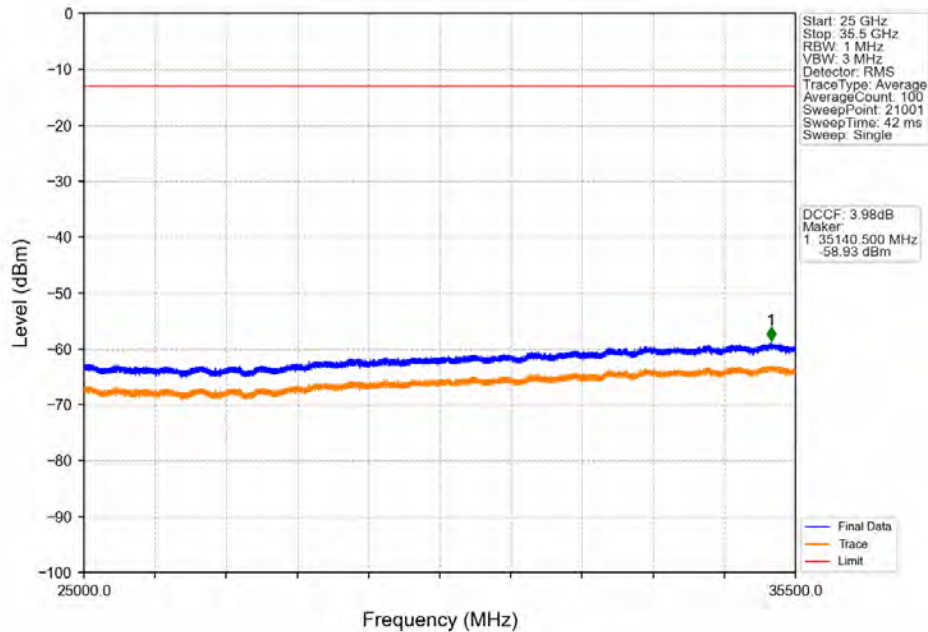
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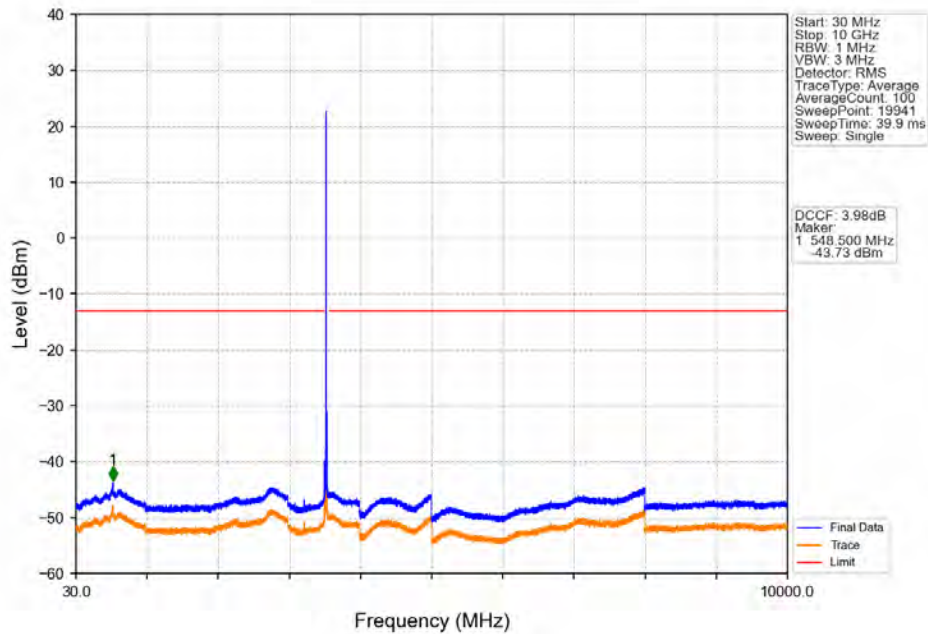
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Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_0_NTNV



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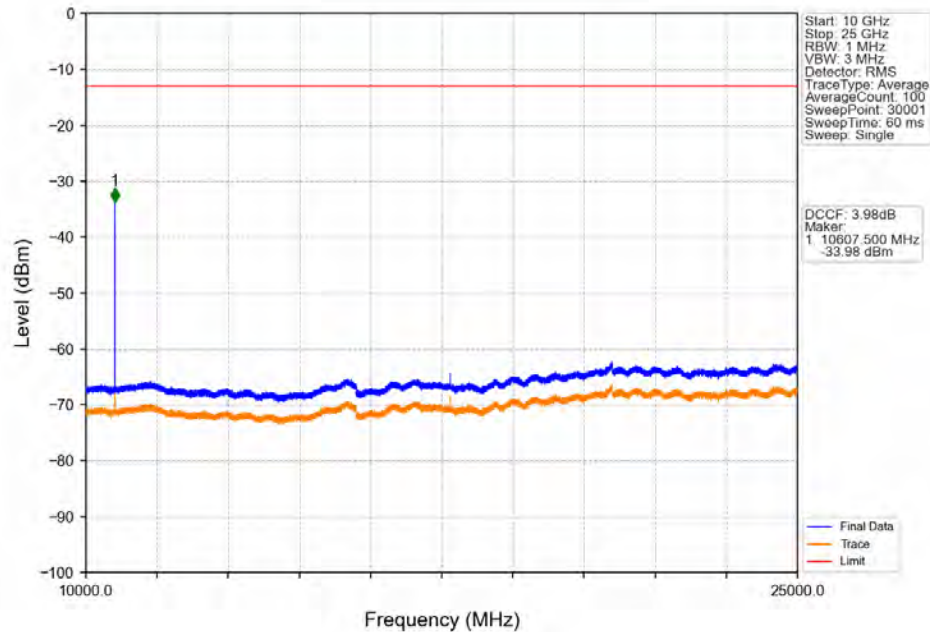
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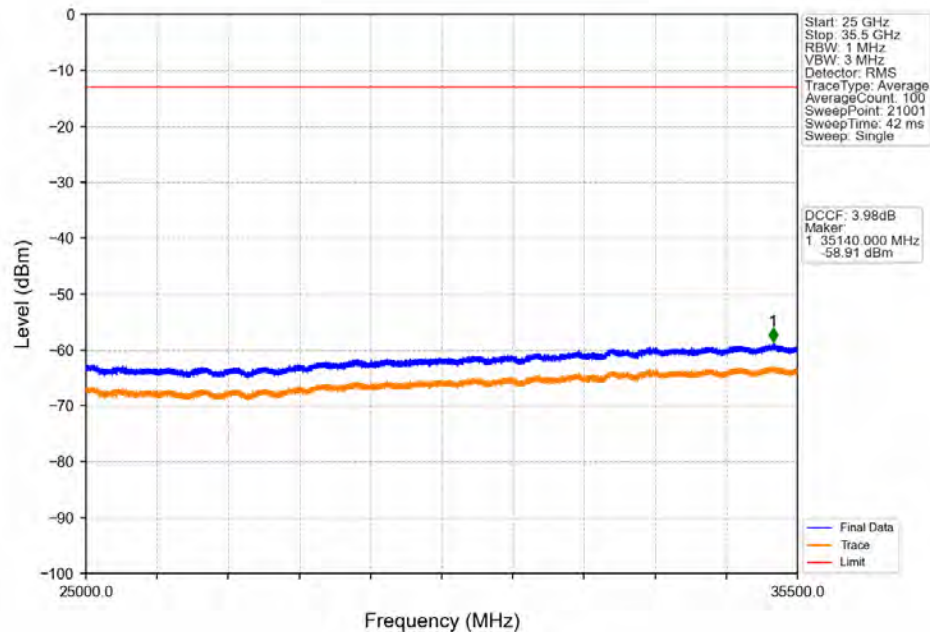
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Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_0_NTNV



Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_74_NTNV



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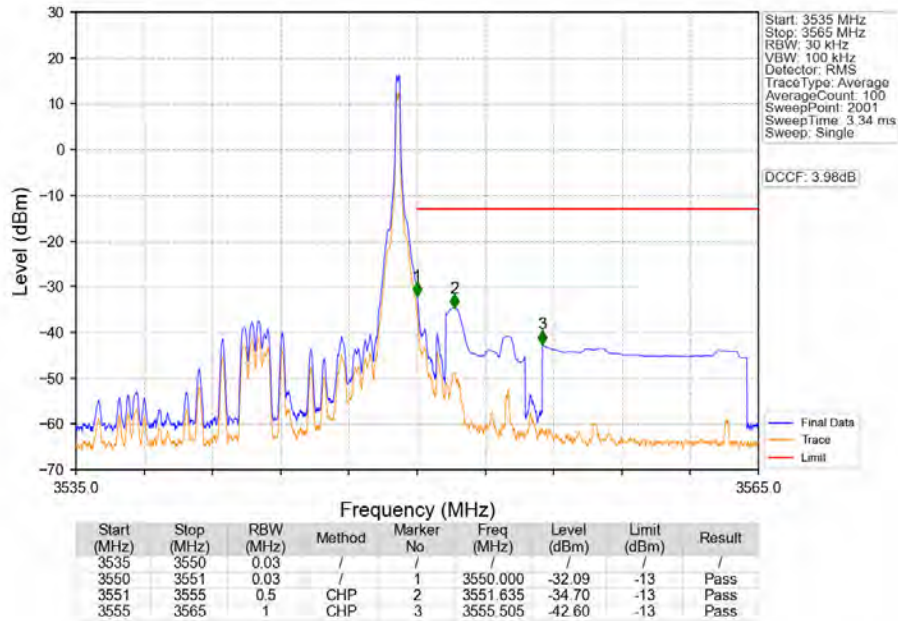
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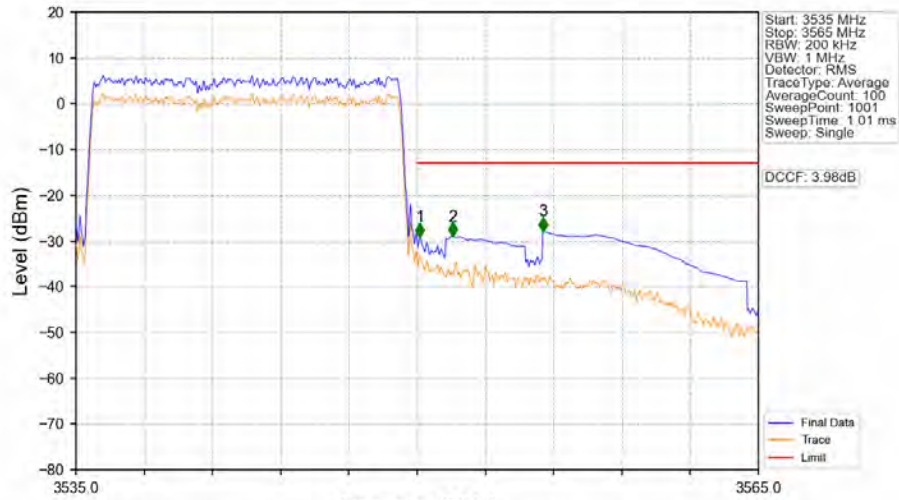
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Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3535	3550	0.2	/	/	/	/	/	/
3550	3551	0.2	/	1	3550.120	-29.14	-13	Pass
3551	3555	0.5	CHP	2	3551.560	-29.03	-13	Pass
3555	3565	1	CHP	3	3555.520	-27.90	-13	Pass



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6.4 B42a_20MHz

6.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3460	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	3500	1	0	Refer To Test Graph	Pass
	3540	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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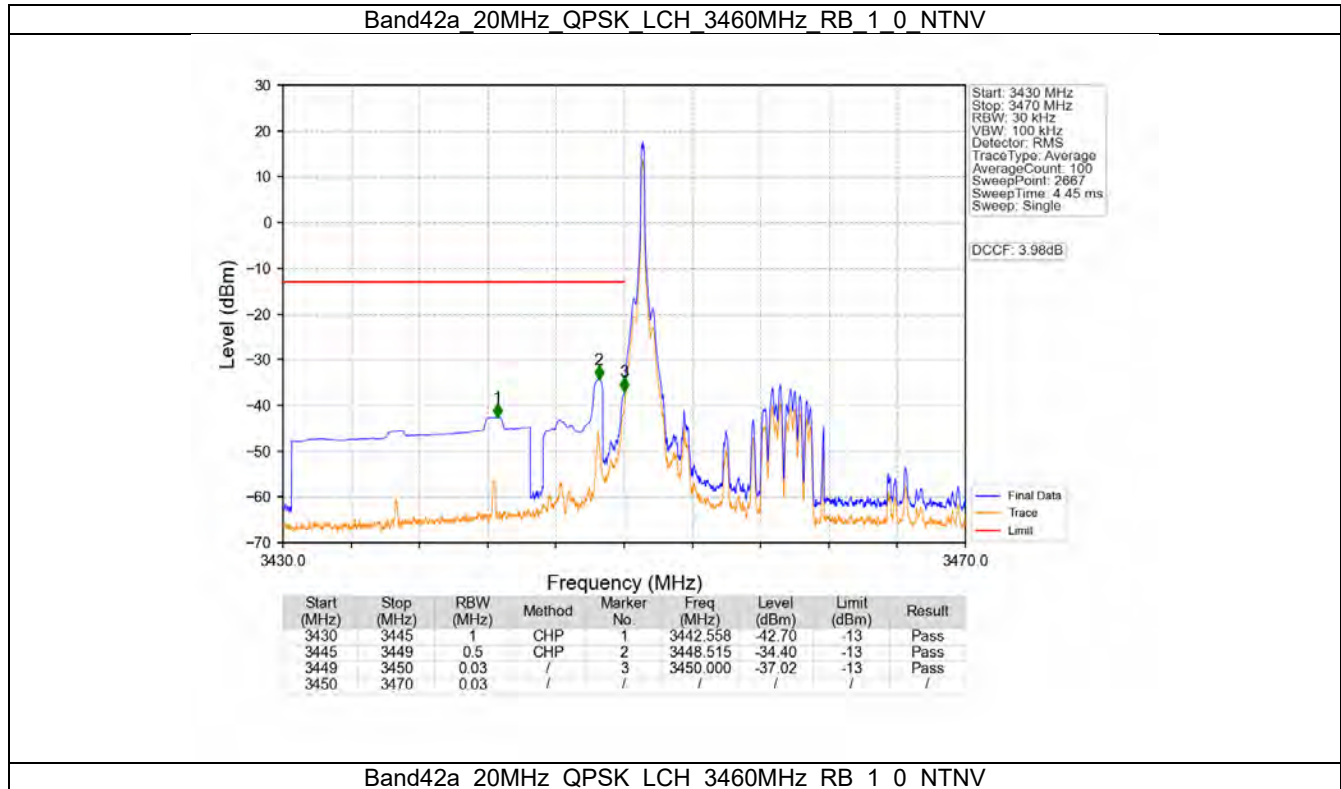
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6.4.2 Test Graph



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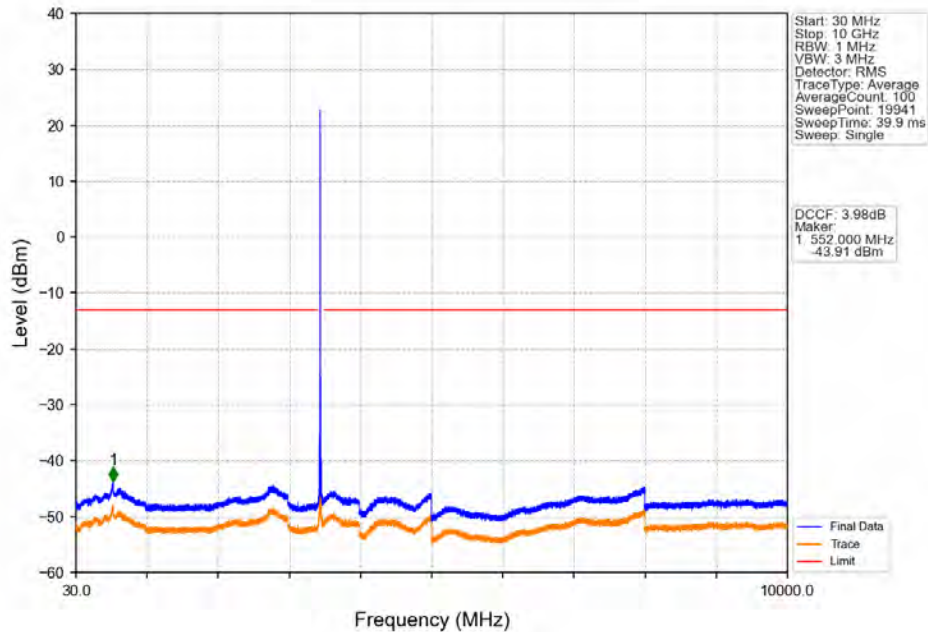
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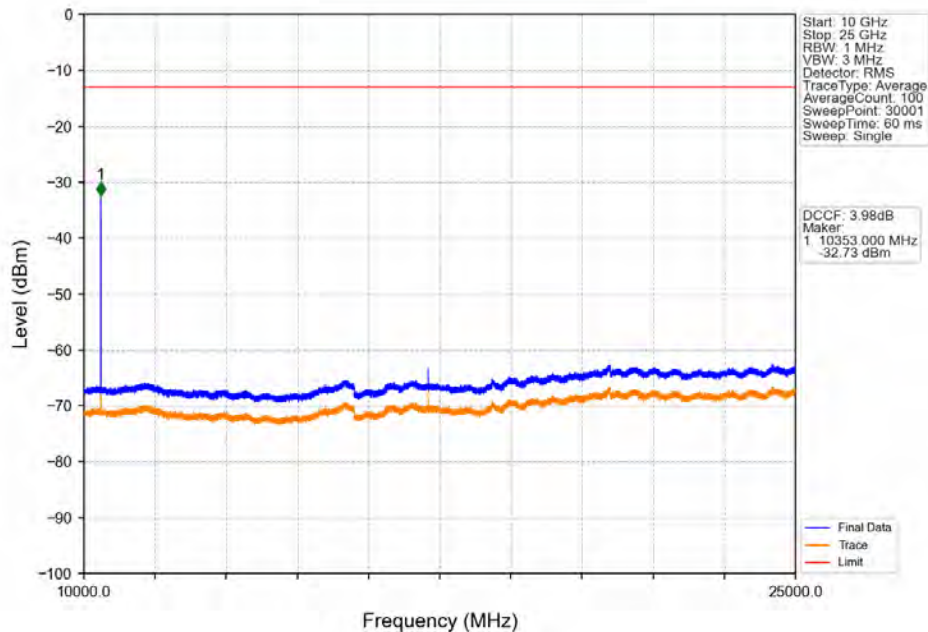
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Band42a_20MHz_QPSK_LCH_3460MHz_RB_1_0_NTNV



Band42a_20MHz_QPSK_LCH_3460MHz_RB_1_0_NTNV



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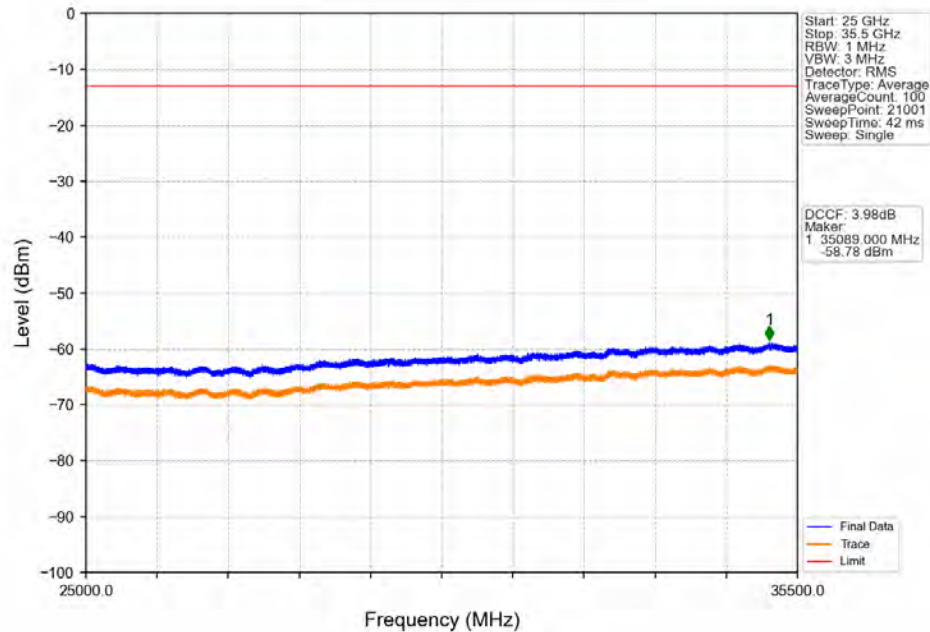
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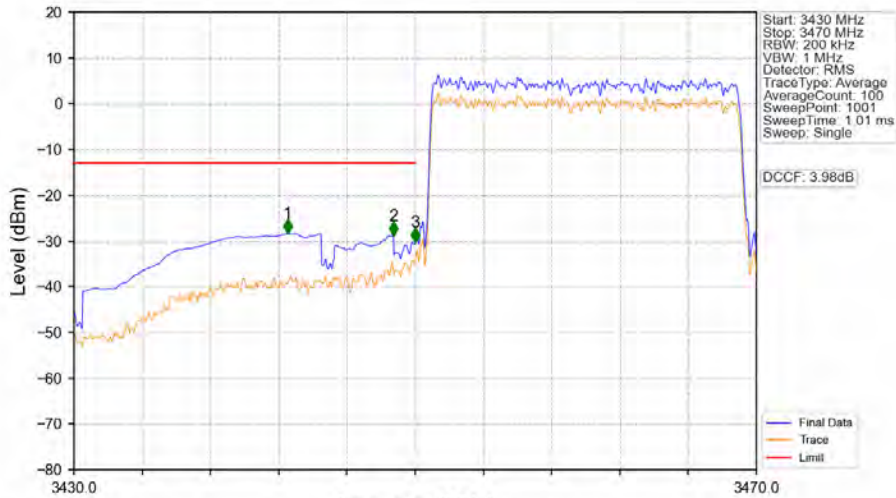
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Band42a_20MHz_QPSK_LCH_3460MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3430	3445	1	CHP	1	3442.520	-28.31	-13	Pass
3445	3449	0.5	CHP	2	3448.720	-28.88	-13	Pass
3449	3450	0.2	/	3	3450.000	-30.31	-13	Pass
3450	3470	0.2	/	/	/	/	/	/

Band42a_20MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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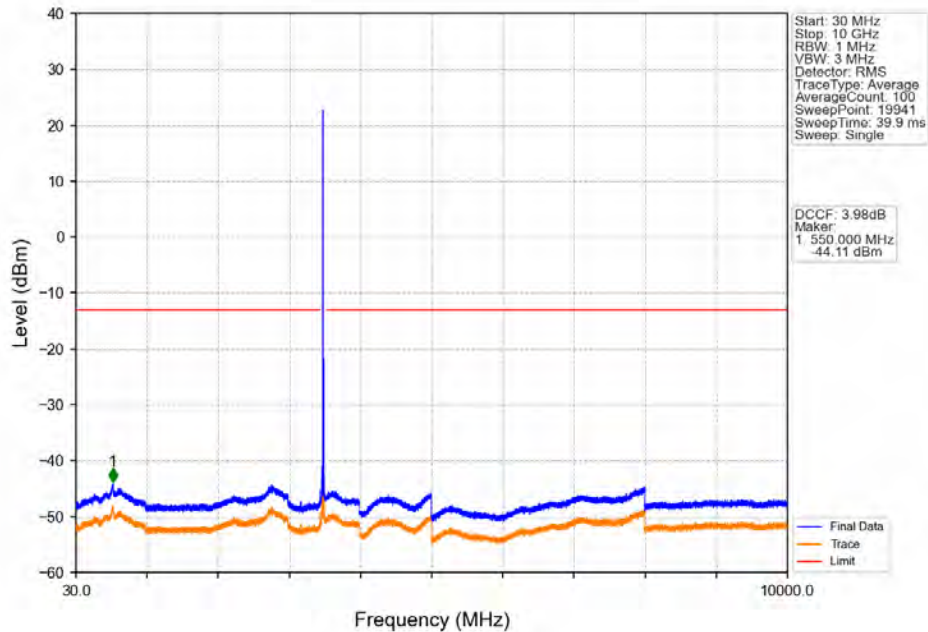
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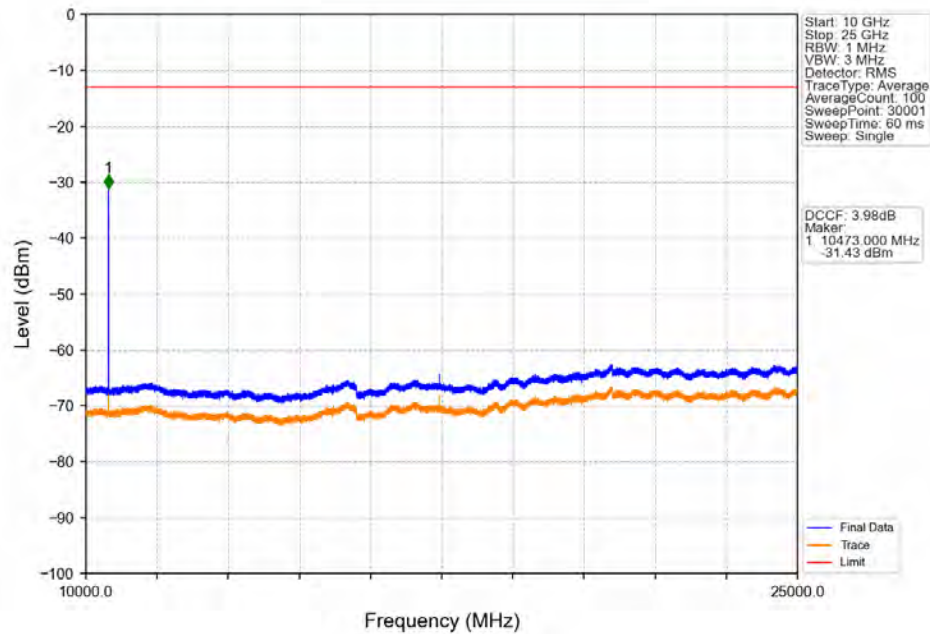
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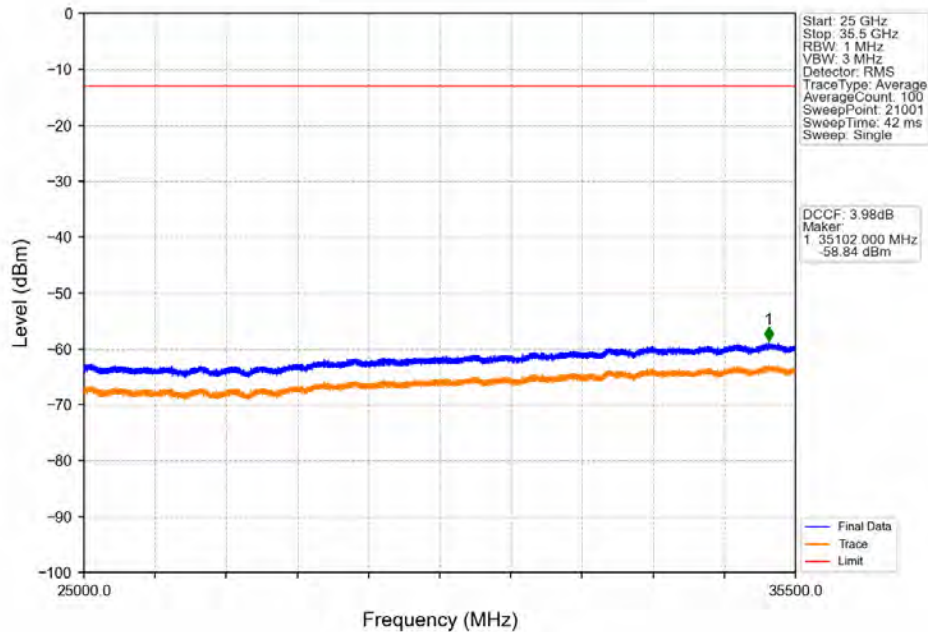
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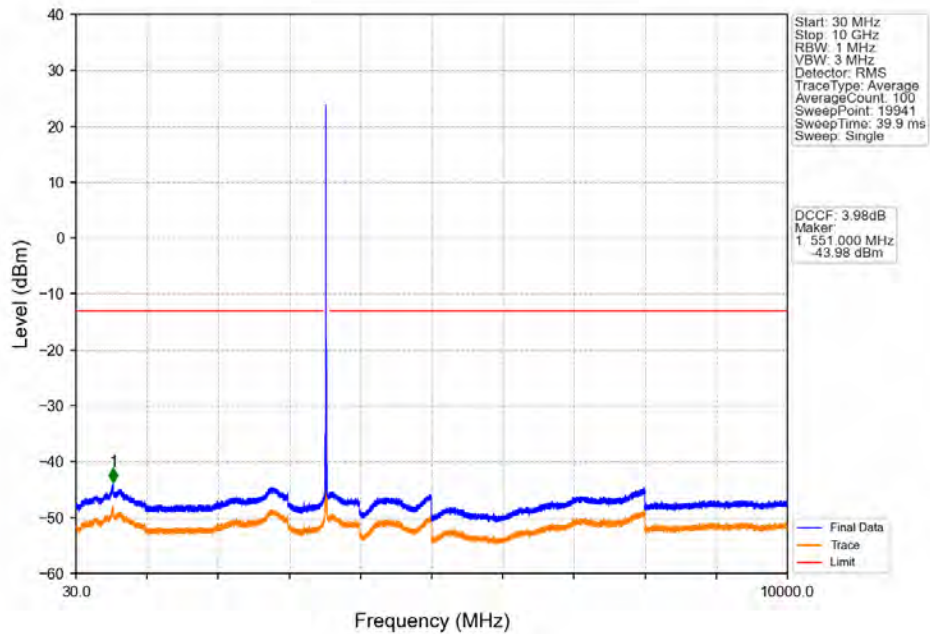
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Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_0_NTNV



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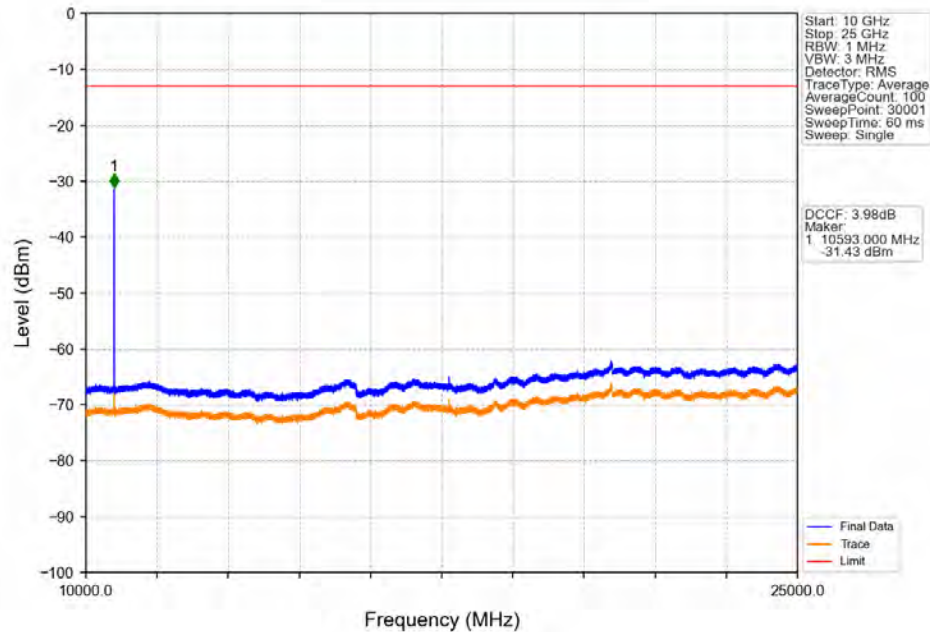
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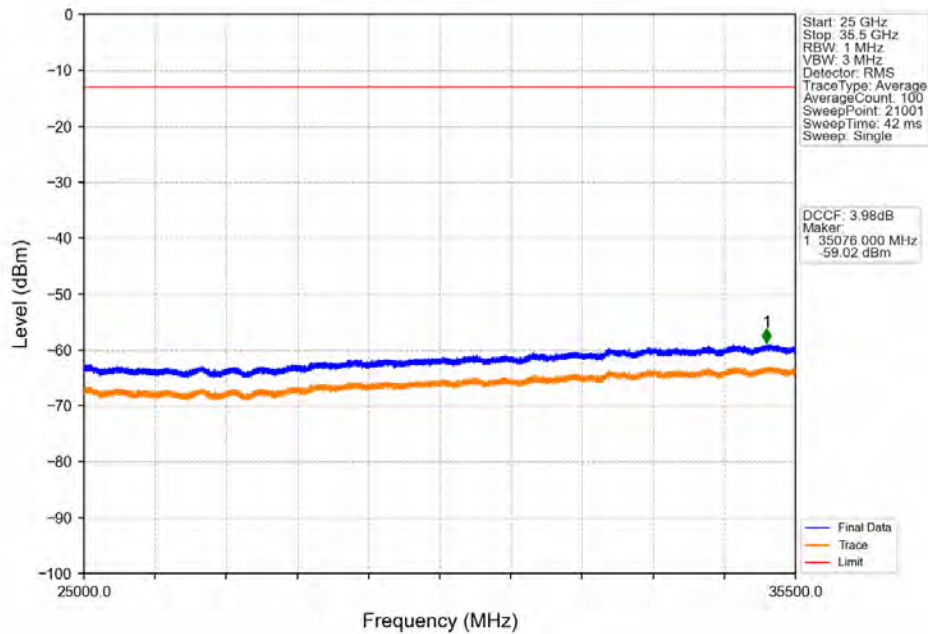
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Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_99_NTNV



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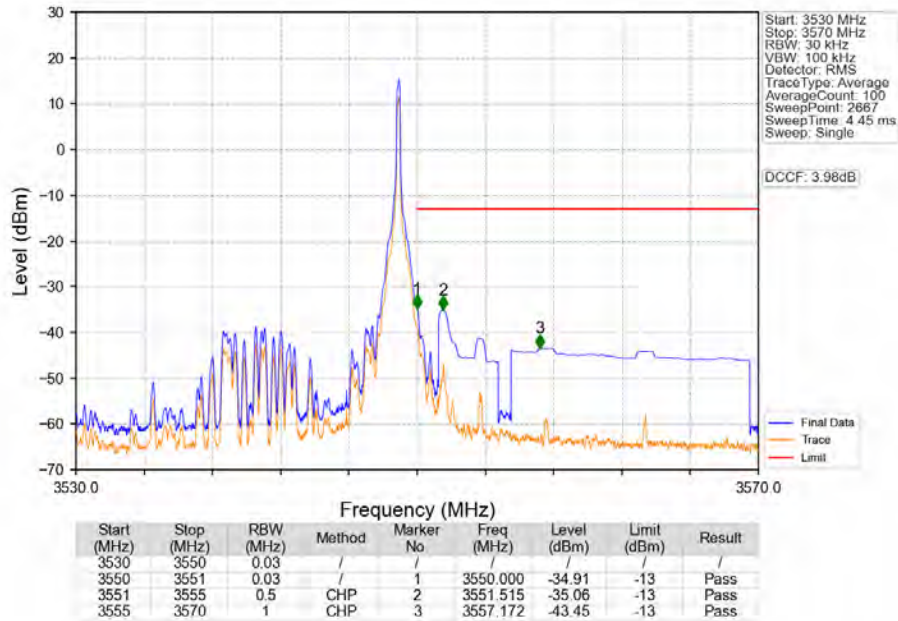
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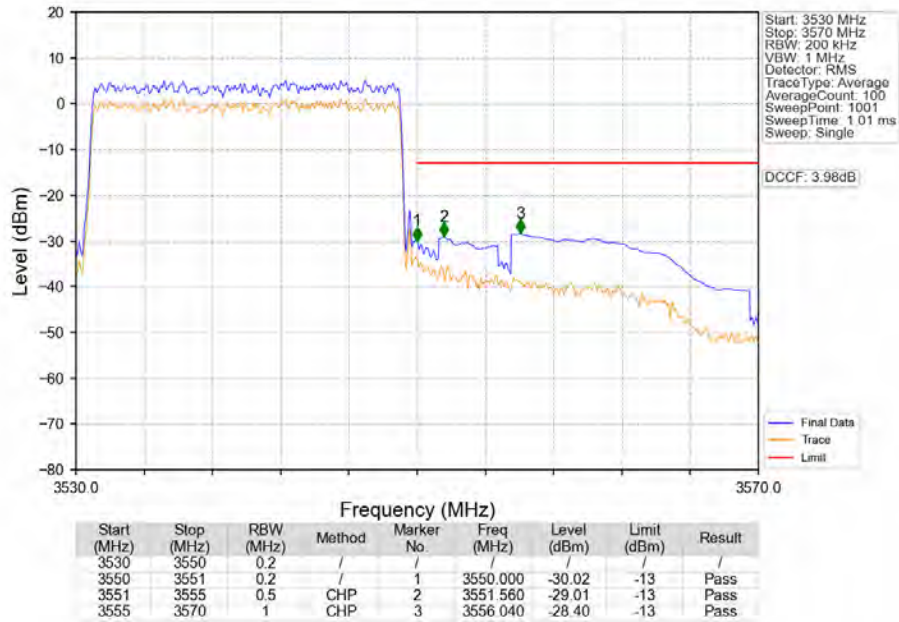
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Band42a_20MHz QPSK HCH 3540MHz_RB_100_0_NTNV



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